



OCTOBER 1, 2026



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Cro chem Industrial Development Company

Experts for Chemicals and buildings materials

Introduction:

CroChem Industrial Development Company, LLC - One of the specialized companies for the production of high-quality construction chemicals in the Egyptian market.

Cro Chem is a specialized company in the field of building chemicals, but our foundation is rock-solid. led by a team with 25 years of experience in the industry. we're not just starting out; we're building on a proven track record of success. We combine our deep understanding of construction challenges with a passion for innovation, offering high-performance solutions that push the boundaries of what's possible, that empower builders to achieve excellence.

We offer a comprehensive range of innovative products formulated with superior quality ingredients and cutting-edge technology.

Our mission:

"Empowering success through innovative, sustainable construction solutions tailored to our customers' needs, driven by 25 years of expertise and a commitment to continuous improvement. "

Our Vision

To lead the construction industry with innovative, sustainable solutions that exceed expectations and set new standards for excellence."



Our Values

Integrity “the power on honest “

- *We align our actions with our words and deliver what we promise*
- *Compete fairly*
- *Ensure accuracy and completeness of our financial reports*
- *We are fair, honest and open in our communication*
- *We refuse to make improper payments*

Excellence “The power of Quality “

- *We focus on delivering the highest value to our customers, always with a sense of urgency.*
- *We establish a work environment that support excellence*
- *We select, place and evaluate employees based on their qualification and performance.*
- *We provide employees with opportunities to develop*

Team Work “The power of working together “

- *We treat others with respect and do not tolerate intimidation or harassment*
- *We treat people fairly and prohibit discrimination*
- *We build outstanding relation with our distribution channel members.*
- *We view our suppliers as our business allies.*

Commitment “The power of responsibility “

- *We protect the health and safety of others and our self*
- *We take personal responsibility*
- *We safeguard our confidential information*
- *We recognize and respect personal privacy*

Products' Groups:

Our products Groups includes:

1. Color Renders & Decorative Finishes.
2. Tiles' Fixing & Grouting mortars.
3. Walls & Ceilings plastering mortars.
4. Putties & Skim Coat.
5. Waterproofing Slurries.
6. Bonding Agents and special adhesive mortars.
7. Surface Sealers.
8. Decorative Flooring
9. Flooring

For more details, please visit our website: www.Crochem-egypt.com



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Cro Chem
Construction Chemical

Cro Chem Products

Group1: Color Renders & Decorative Finishes

Cement based, high quality, extreme weather resistant, color stable, decorative façade renders in powder form. requires the addition of water on site. ideal for internal and external applications over plastered substrates and fair face concrete



Cro Finish

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Cro Finish family is cement base, ready mix, decorative façade renders which is available in different textures and has excellent resistance to extreme weather conditions. Cro Finish family is available in wide range of attractive and stable colors which are not affected by sunlight & UV, rains and weather conditions.

Cro Finish available in 30 standard colors with possibility of special colors for large scale projects / quantities. Please ask about Cro Finish standard color chart



CRO FINISH MAX FINE:

Cement base, excellent quality, polymer modified, ready mix, color, decorative render suitable for extreme weather conditions. Cro Finish Fine provides smooth finish when it is applied manually by trowel or rough texture when it is applied mechanically by spraying machines or by Tyrolean.



Cro Finish Fine:

Cement base, high quality, polymer modified, ready mix, color, decorative, weather resistance render. Cro Finish fine provides smooth finish in manual applying by trowel or rough texture when it is applied mechanically by spraying machines or by Tyrolean.

Cro Finish Fine F:

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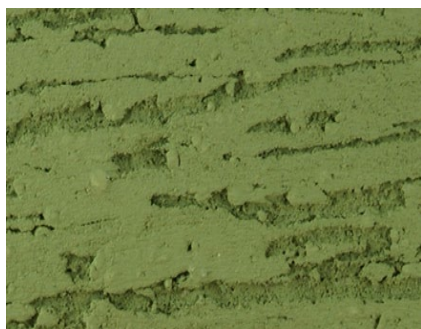
Cro Finish fine F is similar to Cro Finish fine but will provide smoother finish in manual applying by trowel.

Cro Finish R:

Cement based, high quality, one component, color, decorative finishing coat for renovation of old substrates finished with Cro Finish.

Cro Finish Max Coarse:

Cement base, excellent quality, polymer modified, ready mix, color, decorative, render suitable for extreme weather conditions. Cro Finish coarse provides medium grooved surface (Graviatto) finish when it is applied manually by trowel or rough texture when it is applied mechanically by spraying machines or by Tyrolean.



Cro Finish Coarse:

Cement base, excellent quality, polymer modified, ready mix, color, decorative, render suitable for extreme weather conditions. Cro Finish Coarse provides medium grooved surface (Graviatto) finish when it is applied manually by trowel or rough texture when it is applied mechanically by spraying machines or by Tyrolean.

Cro Finish AC:

Cement base, excellent quality, polymer modified, ready mix, color, decorative, anti-carbonation, coating suitable for extreme weather conditions. Cro Finish AC can be applied by roller/brush or can be applied mechanically by spraying machines or by Tyrolean.



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Cro Finish Stone:

Cement base, excellent quality, polymer modified, ready mix, color, decorative, render suitable for extreme weather conditions. Cro Finish Stone provides artificial stone finish and can be applied over plaster and concrete substrates at thickness from 6 to 10 mm.



CroCoat:

Acrylic high quality ready mixed colored decorative finish façade render, water based strengthened with moraine rocks to give medium roughness surface finish when applied manually by trowel, characterized with its durability, color stable, excellent resistance against extreme weather conditions.



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Group 2: Tiles & Marble Fixing & Grouting Products.

Cro fix (Tile adhesives):

cement based high quality, polymer modified, ready mixed, flexible, thin set tile adhesive mortar in powder form. ideal for fixing floors and wall tiles especially in submerged areas such as swimming pools, water tanks, kitchens, bathrooms, shower rooms and where heavy traffic is present in private and public buildings.



Cro Fix:

is cement base, high quality, ready mix, multi –purpose, thin set tile adhesive mortar suitable for fixing ceramic tiles on plastered and flat substrates. Cro Fix is available in Gray & White colors.

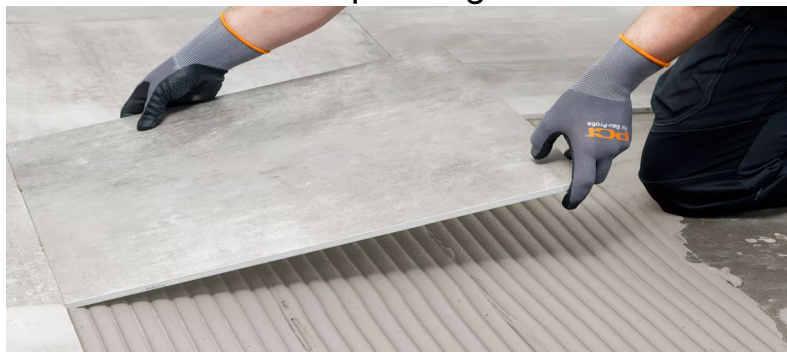


Cro Fix Premium:

Cement base, excellent quality, polymer modified, ready mix, flexible, thin set tile adhesive mortar. Cro Fix Premium is ideal for fixing floors and walls ceramic, mosaic and porcelain tiles indoors and outdoors especially in submerged areas such as swimming pools, water tanks ...etc. and in cases of heavy traffic in private



and public buildings. Cro Fix Premium is also ideal for fixing tiles on external facade plastered walls. Cro Fix Premium can be used for fixing new tiles over old tiles. Cro Fix premium is available in Gray & White colors. Cro Fix Premium is a part of CroChem wet areas complete system and is ideal for fixing ceramic tiles over Cro Proof waterproofing membranes.



Cro Fix Marble:

Cement base, excellent quality, highly polymer modified, ready mix, flexible, thin set tile adhesive mortar. Cro Fix Marble is ideal for fixing floors and walls heavy weight ceramic, mosaic, porcelain and marble tiles especially in submerged areas such as swimming pool, water tanks ...etc. and where heavy traffic is present in private and public buildings. Cro Fix Marble is also ideal for fixing marble tiles on external facade plastered walls. Cro Fix Marble can be used for fixing new tiles over old tiles. Cro Fix Marble is available in Gray & White colors.

Cro Fix Marble is a part of Cro chem wet areas complete system and is ideal for fixing ceramic tiles over Cro Proof waterproofing

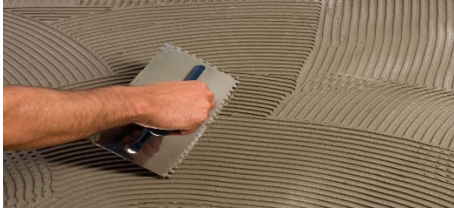


CroFix MegaBond TDS

Cement based, high quality, two component, thin set, extra flexible ,waterproofing tile adhesive mortar Crofix MegaBond is cement based high quality, highly polymer modified, two component, extra flexible, thin set ,waterproofing tile adhesive mortar. Crofix MegaBond requires mixing the two components on site to form ready to use tile adhesive mortar.



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Cro Grout:

Cro Grout family is cement base, ready mix, color, resistant of water, mortars for grouting ceramic, porcelain and marble tiles, joints for walls and floors.

Cro Grout is available in 30 standard colors. Please ask about Cro Grout standard color chart



Cro Grout

Cement base high quality, polymer modified, ready mix, color, decorative narrow tiles joints grouting mortar suitable for grouting joints up to 5 mm width.

Cro Grout is ideal for internal and external applications.

Cro Grout Coarse:

Cement base excellent quality, polymer modified, ready mix, color, decorative wide tiles joints grouting mortar suitable for grouting joints from 4 to 15 mm width.

Cro Grout Coarse is ideal from internal and external applications and can also be used for grouting glass bricks joints. Cro Grout Coarse is a part of Cro chem wet areas complete system.

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Group 3: Walls & Ceilings Plastering Products.

Cement based high quality, ready mixed mortar in powder form. it provides high-quality mortar specially formulated to replace the traditional sand / cement mortar in construction applications such as plastering mortar, brick laying mortar, tile fixing mortar and floor screeds ...etc.





Cro Plast 301:

Cement base high quality, ready mix, water and weather resistant plastering mortar. Cro Plast 301 is specially formulated to provide smooth finish plaster to replace the conventional sand-cement render. Cro Plast 301 can be applied at thickness from 1.5 to 2.5 cm using spray machine and can also be applied manually

Cro Plast 308:

Cement bas high quality, ready mix, spatter dash (Tartasha) mortar. Cro Plast 308 is specially formulated to be used as scratch coat and spatter dash mortar on blocks and concrete surfaces. Cro Plast 308 can be applied using manual spray machine and can also be applied manually.

Gypsum plast system

high quality, polymer modified, ready mix gypsum plastering system It is the latest integrated white mortar system in powder ready mixed - saves the time and cost of applying two skin paste to reach the desired color and softness

This system available in one component and three components applied manually.

Cro Mortar:

Cement based high quality, ready mixed mortar in powder form. Cro Mortar requires the addition of water on site.

The standard grades of Cro Mortar are (Other grades are available upon request):

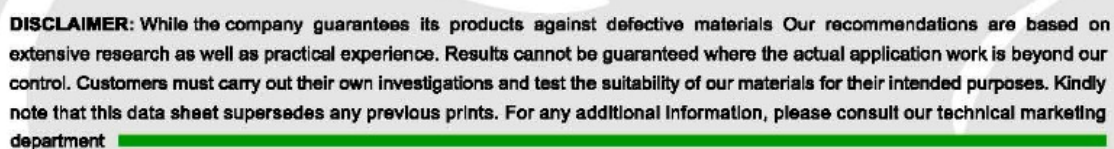
Cro Mortar 250 (250 kg OPC/M³ Sand) up to Cro Mortar 450 (450 kg OPC/M³ Sand)

Cro Mortar F:

Cement based, fiber reinforced, high quality, ready mixed mortar in powder form. Cro Mortar F requires the addition of water on site.

The standard grades of Cro Mortar are:

Cro Mortar 250 F (250 kg OPC/M³ Sand) up to Cro Mortar 450 F (450 kg OPC/M³ Sand)





Group 4: Cement -Based Putties & Skim Coat

Cement based, high quality, ready mixed, polymer modified, one component putty in powder form. ideal for smoothing internal and external cement base plastered walls, ceilings and fair face concrete prior to painting and coating applications.





Cro Putty:

Cement base, excellent quality, polymer modified, ready mix putty for smoothing internal and external surfaces in pre-painting acts. Cro Putty provides very smooth, water and moisture resistant surface. Cro Putty is available in Gray and White colors.



Cro Putty CR:

Cement base high quality, polymer modified, ready mix skim coat mortar. Cro Putty CR is ideal for cosmetic repair of concrete surfaces defects such as honeycombs, surface static cracks and formwork alignment deformation. Cro Putty CR is available in Gray and White colors



Cro Putty 100:

Cement base, high quality, polymer modified, ready mix putty for smoothing internal and external surfaces in pre-painting acts. Cro Putty 100 provides smooth, water and moisture resistance surface. Cro Putty 100 is available in Gray and White colors



El Ostaz 120 ® :

Gypsum base high quality, polymer modified, ready mix skim coat mortar. Elostaz 120 high quality white putty used as a base for painting works and a decorative textured layer. It also gives a high smooth glossy surface. Elostaz 120 is compatible with the European standards # 13279





Group 5: Waterproofing Products.

Cro Proof

Cro Proof family is excellent quality, cement base, ready mix waterproofing slurries for wet areas such as bathrooms, kitchens, balconies, swimming pools and water tanks.



Cro Proof (507):

Cro Proof 507 is cement base, polymer modified, two components, excellent quality flexible waterproofing slurry suitable for application internally and externally on concrete, cementitious renders, masonry and other construction substrates.

Cro Proof 507 is a part of Crochem wet areas complete system.

Cro Proof 505

A cement base, polymer modified, Two component, multi-purpose water proofing slurry. Cro Proof 505 combines the crystallization action and the water proofing capability of polymer. It Consists of special fillers, cement and graded aggregates.

Cro Crystalline waterproofing:

is a type of waterproofing that uses crystalline technology to prevent water penetration in concrete structures. This technology works by using chemicals to create a crystalline structure; a network of insoluble, microscopic crystals within the concrete.



Crystalline Waterproofing is a powerful, highly effective and cost-efficient, technique for protecting concrete structures from water damage. It has become a trusted technology that offers a permanent and self-healing solution to water penetration by using the natural process of crystallization to create a network of insoluble crystals that fill the capillary pores and micro-cracks in the concrete, effectively sealing it and making it impervious to water. This makes it an ideal solution for a wide range of applications, including critical infrastructure, where water damage and moisture-related issues can have severe consequences.

Group 6: Bonding Agents

Cro Bond

Cro Bond family is high quality bonding agents and adhesives to be used as an admixture with different types of cement mortars and also for fixing different types of construction materials.

CroBond 5001:

Multi purpose admixture specially formulated to be used with cement base mortars to improve adhesion to most construction materials such as concrete, bricks and blocks

CroBond 65:

Multi purpose admixture specially formulated to be used with cement-based mortars & concrete to improve adhesion, water resistant, abrasion resistant, compressive, flexural and tensile strength.



Cro PolyFix:

Cement base, high quality, highly polymer modified, ready mix, flexible, thin set tile universal adhesive mortar. Cro PolyFix is ideal for fixing polyurethane



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decorative molding products such as cornices, ceiling centers, door frames ...etc. Cro PolyFix can also be used for the installation of glass block walls



Cro THERMO-BOND:

Cement base high quality, highly polymer modified, ready mix, flexible, thin set adhesive mortar. Cro THERMO-BOND is part of Cro chem External insulation and Exterior insulation and finishing system (EIFS) is a type of building exterior wall cladding system that provides exterior walls with an insulated finished surface. It is ideal for fixing expanded polystyrene thermal insulation boards to different construction materials.

Group 7: Surface Sealers

Cro Seal

High quality aqueous dispersion sealer. Cro Seal 860 can be used for sealing porous substrates prior to application of Cro chem finishing systems such as Cro Finish and Cro Fix systems



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Group 8: Decorative Flooring

Cro Microcement:

is a decorative coating made up of cement, water-based resins, additives and mineral pigments that can be applied to a multitude of vertical and horizontal surfaces thanks to its great adherence. This construction material stands out because it is placed directly on the existing material: tiles, plasterboard, tiles, marble, terrazzo or plaster, among many others. With barely any work and a thickness of only 3 millimeters, a quick renovation of spaces is achieved.

Cro micro-cement offers you a wide range of possibilities and decorative finishes, where you set the limit. Give the rooms a unique and personal character thanks to the different textures (thick, medium or fine); the wide variety of micro cement colors; and the different finishes that our varnishes and metallic coatings allow.





Group 9: Flooring Products

CroFloor

Dry Floor families is high quality, cement base, ready mix flooring mortars for industrial floorings and stamped concrete systems.



Cro Floor 901:

Cement based, high quality, ready mixed, heavy duty, Dry shake floor hardener for concrete floors. Cro Floor 901 contains well graded crushed basalt. Cro Floor 901 is recommended where heavy traffic is present and where durable, hard wearing, dust free and impact resistant floor is required.





Cro Floor 902 SL:

Cement based, high quality, polymer modified, one component, ready mixed, self leveling underlayment floor screed. Cro Floor 301 SL can be applied at 3:20 mm thickness to smooth floors prior to the installation of different floor finishes such as carpet, vinyl, wooden floors ...etc.



Dry Floor 903 CH:

Cement based, high quality, ready mixed, concrete floor surface color hardener. Cro Floor 302 CH is specially formulated for application by the dry shake technique over the freshly poured concrete floor to produce hard wearing and abrasion resistant surface. Cro Floor 302 CH is part of Crpchem Stamped Concrete System.



Cro Floor 903 RA:

High quality, ready mixed release powder that should be spread over fresh concrete when moulds are used for stamped concrete applications. Cro Floor 302 RA is part of CroChem Stamped Concrete System



Our Project Portfolio

Madinty V23-V24



Mall Rock Capital



Rock White



Future of Egypt project



Rock Gold



Rock Yard



Social Housing



Export :Libya – Lebanon – Somalia – Yemen



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Product Data Sheets

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Group 1: Color Renders & Decorative Finishes TDS

Cro Finish Max Fine

CRO FINISH Fine

CRO FINISH R

CRO FINISH MAX Coarse

Cro Finish Coarse

Cro Finish AC

Cro Finish Stone



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Cro Finish Max Fine TDS

Fine textured decorative finish...

Cement based, high quality, ready mixed color decorative smooth finish façade renders suitable for extreme weather conditions.

Characteristics

Cro Finish Max Fine

- Cement based, high quality, extreme weather resistant, color stable, decorative façade renders in powder form. Cro Finish Max Fine requires the addition of water on site.
- Ideal for internal and external applications over plastered substrates and fair face concrete. Cro Finish Max Fine is specially formulated to provide smooth finish when applied manually by trowel. Also, Cro Finish Max Fine can be applied by spraying machine or Tyrolean to increase productivity and color uniformity. In this case Cro Finish Max Fine will give rough finish surface.
- **Cro Finish Max Fine F** is similar to Cro Finish Max Fine but formulated with micronized fillers that give an extra fine finished aspect.

Composition

Cro Finish Max Fine is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.

Standards

Cro Finish Max Fine is formulated to comply with DIN EN 998:2003 standard.

Advantages

- Natural and easy to use and apply. Only requires the addition of water.
- Raw materials are selected according to the highest quality control standards.
- Gives modern decorative finishing aspect.
- Exact mixing ratios and homogeneous blend,



- Excellent mixing and workability characteristics
- Simplicity of usage gives very high productivity rates.
- Surface salt or efflorescence is minimized, compared with conventional decorative renders.
- Excellent bonding characteristics and water vapor breath-ability allowing the substrate to breath without damaging the bonding.
- Excellent resistance to extreme weather conditions.

Technical Data

Base	Portland cement, graded clean silica sand and selected additives plus, latex polymer
Available Colors	Available in wide range of standard colors
Powder Density	Approx. 1.6 kg/litre
Bond Strength	> 1.0 N/mm ² .
Flexural Strength	> 3.3 N/mm ² .
Compressive Strength	> 10 N/mm ² .
Shrinkage	1.33 mm/m @ 28 days – standard conditions.
Water Absorption Coefficient	2.07 {kg/(m ² .h)}
Mix proportion	Approx. 6.5±0.25 liters of water/ 25 kg bag.



	Approx. 9.2±0.25 liters of water/ 40 kg bag.
initial setting time	Approx. 30 minutes at 25 C°.
Packing	25kg paper bags 40 kg paper bags
Coverage	2.25 – 2.5 kg/m ² (smooth finish with hand trowel). 3.5 – 5 kg/m ² (rough texture with spray application). (Coverage rate may vary depending on surface condition).

Surface Preparation

Cement based walls and ceilings are the recommended substrates that can be covered with Cro Finish Max Fine. Plastered substrates should be left to cure for at least 14 days prior to application of Cro Finish Max Fine. Any problem in the substrate which may lead to water penetration must be rectified. All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint. If the surface is dry and in hot weather, pre-wet prior to the application of Cro Finish Max Fine without leaving excess water.

Application procedures

- Scaffolding must be fixed independently to allow for one go application.
- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add number of liters of fresh cool, clean water in one deep container. Then, add the contents of the 25 kg bag gradually and mix till the mixture is uniform and free of lumps. For best results, use as little water as



possible. Keep mixing for 3 – 5 minutes, to insure proper mixing and good dispersion of additives.

- Cro Finish Max Fine should be immediately applied on the surface to be applied, while the mortar is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.
- Apply Cro Finish Max Fine to the prepared surface either by conventional hand applied technique, Tyrolean or using spraying machine.
- It is recommended to apply a scratch coat of the same mixed Cro Finish Max Fine prior to application of the final finish. The scratch coat should be left to set for 2 hours and pre-wetted prior to application of second coat.
- Structure the layer with plastic or wooden trowel before the surface dries in order to reach the required architectural finish.
- To achieve color consistency, apply Cro Finish Max Fine in panels and complete it around the building.

Important Notes:

- Do not apply Cro Finish Max Fine on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through Cro Finish Max Fine.
- Using cold water for mixing allows longer initial setting time and improved workability.
- Do not apply Cro Finish Max Fine over previously applied paints or gypsum plaster.
- It is advisable to seal the substrates with a suitable sealer such as Cro Sealto avoid inconsistent color finish, when applied on uneven or porous surfaces.
- It is recommended that Cro Finish Max Fine should be stopped within 15 cm of the ground floor level and suitable skirting could be used to avoid dampness and discoloration.
- The quantity of mixing water should strictly be monitored between batches to ensure color uniformity, never remix with extra water. Should the mortar start to stiffen, just remix till the consistency gets back to a creamy, workable consistency again.



- To ensure color uniformity it is advisable to apply Cro Finish Max Fine in the shade, not in direct sun light.
- The work force should be enough to work on large areas, to eliminate cold joints and marks between different applications, it is advisable to apply large areas in one step, or split the large areas with grooved lines (Joints).
- Never cure with water or any curing compounds, as this may affect the color.
- In dusty areas subject to frequent splashes of water such as gardens, it might be advisable to treat the surface using Cro Seal 802, a water-repellent material, to be able to clean the stains easily.
- Applied colors may differ slightly from Cro Finish standard color chart due to job-site induced variations, such as application, drying, substrate etc.
- As natural raw materials are used for the production of Cro Finish Max Fine , it is advisable to apply the entire façade at one time to ensure color uniformity as minor variations might be observed sometimes.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Finish Fine TDS

Fine textured decorative finish...

Cement based, high quality, ready mixed color decorative smooth finish façade render.

Characteristics

Cro Finish Fine

- Cement based, high quality, extreme weather resistant, color stable, decorative façade renders in powder form. Cro Finish Fine requires the addition of water on site.
- Ideal for internal and external applications over plastered substrates and fair face concrete. Cro Finish Fine is specially formulated to provide smooth finish when applied manually by trowel. Also, Cro Finish Fine can be applied by spraying machine or Tyrolean to increase productivity and color uniformity. In this case Cro Finish Fine will give rough finish surface.
- **Cro Finish Fine F** is similar to Cro Finish Fine but formulated with micronized fillers that give an extra fine finished aspect.

Composition

Cro Finish Fine is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.

Standards

Cro Finish Fine is formulated to comply with DIN EN 998:2003 standard.

Advantages

- Natural and easy to use and apply. Only requires the addition of water.
- Raw materials are selected according to the highest quality control standards.
- Gives modern decorative finishing aspect.
- Exact mixing ratios and homogeneous blend,
- Excellent mixing and workability characteristics



- Simplicity of usage gives very high productivity rates.
- Surface salt or efflorescence is minimized, compared with conventional decorative renders.
- Excellent bonding characteristics and water vapor breath-ability allowing the substrate to breath without damaging the bonding.
- Excellent resistance to extreme weather conditions.

Technical Data

Base	Portland cement, graded clean silica sand and selected additives plus, latex polymer
Available Colors	Available in wide range of standard colors
Powder Density	Approx. 1.6 kg/litre
Water Absorption Coefficient	2.07 {kg/(m ² .h)}
Mix proportion	Approx. 6.5±0.25 liters of water/ 25 kg bag. Approx. 9.2±0.25 liters of water/ 40 kg bag.
initial setting time	Approx. 30 minutes at 25 C°.
Packing	25kg paper bags 40 kg paper bags
Coverage	2.25 – 2.5 kg/m ² (smooth finish with hand trowel). 3.5 – 5 kg/m ² (rough texture with spray application).



	(Coverage rate may vary depending on surface condition).
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Surface Preparation

Cement based walls and ceilings are the recommended substrates that can be covered with Cro Finish Fine. Plastered substrates should be left to cure for at least 14 days prior to application of Cro Finish Fine. Any problem in the substrate which may lead to water penetration must be rectified. All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint. If the surface is dry and in hot weather, pre-wet prior to the application of Cro Finish Fine without leaving excess water.

Application procedures

- Scaffolding must be fixed independently to allow for one go application.
- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add number of liters of fresh cool, clean water in one deep container. Then, add the contents of the 25 kg bag gradually and mix till the mixture is uniform and free of lumps. For best results, use as little water as possible. Keep mixing for 3 – 5 minutes, to insure proper mixing and good dispersion of additives.
- Cro Finish Fine should be immediately applied on the surface to be applied, while the mortar is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.
- Apply Cro Finish Fine to the prepared surface either by conventional hand applied technique, Tyrolean or using spraying machine.



- It is recommended to apply a scratch coat of the same mixed Cro Finish Fine prior to application of the final finish. The scratch coat should be left to set for 2 hours and pre-wetted prior to application of second coat.
- Structure the layer with plastic or wooden trowel before the surface dries in order to reach the required architectural finish.
- To achieve color consistency, apply Cro Finish Fine in panels and complete it around the building.

Important Notes:

- Do not apply Cro Finish Fine on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through Cro Finish Fine.
- Using cold water for mixing allows longer initial setting time and improved workability.
- Do not apply Cro Finish Fine over previously applied paints or gypsum plaster.
- It is advisable to seal the substrates with a suitable sealer such as Cro Sealto avoid inconsistent color finish, when applied on uneven or porous surfaces.
- It is recommended that Cro Finish Fine should be stopped within 15 cm of the ground floor level and suitable skirting could be used to avoid dampness and discoloration.
- The quantity of mixing water should strictly be monitored between batches to ensure color uniformity, never remix with extra water. Should the mortar start to stiffen, just remix till the consistency gets back to a creamy, workable consistency again.
- To ensure color uniformity it is advisable to apply Cro Finish Fine in the shade, not in direct sun light.
- The work force should be enough to work on large areas, to eliminate cold joints and marks between different applications, it is advisable to apply large areas in one step, or split the large areas with grooved lines (Joints).
- Never cure with water or any curing compounds, as this may affect the color.



- In dusty areas subject to frequent splashes of water such as gardens, it might be advisable to treat the surface using Cro Seal 802, a water-repellent material, to be able to clean the stains easily.
- Applied colors may differ slightly from Cro Finish standard color chart due to job-site induced variations, such as application, drying, substrate etc.
- As natural raw materials are used for the production of Cro Finish Fine , it is advisable to apply the entire façade at one time to ensure color uniformity as minor variations might be observed sometimes.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Finish fine R TDS

Cement based, high quality, one component, color, decorative finishing coat for renovation of old substrates finished with Cro Finish.

Characteristics

- Ideal for manual applications by brush / roller. Also, Cro Finish Fine R can be applied by spraying machine or Tyrolean to increase productivity and color uniformity.
- manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.
- Ideal for internal and external applications over plastered substrates and fair face concrete.

Composition

Cro Finish Repair is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.

Standards

Cro Finish Fine is formulated to comply with DIN EN 998:2003 standard.

Advantages

- Natural and easy to use and apply. Only requires the addition of water.
- Raw materials are selected according to the highest quality control standards.
- Gives modern decorative finishing aspect.
- Exact mixing ratios and homogeneous blend,
- Excellent mixing and workability characteristics
- Simplicity of usage gives very high productivity rates.
- Surface salt or efflorescence is minimized, compared with conventional decorative renders.



- Excellent bonding characteristics and water vapor breath-ability allowing the substrate to breath without damaging the bonding.
- Excellent resistance to extreme weather conditions.

Technical Data

Base	Portland cement, graded clean silica sand and selected additives plus, latex polymer
Application thickness	1-2 mm.
Available Colors	Available in wide range of standard colors
Powder Density	Approx. 1.6 kg/liter
Mix proportion	Approx. 9.25±0.25 liters of water/ 25 kg bag. Approx. 14.8 ±0.25 liters of water/ 40 kg bag.
initial setting time	Approx. 30 minutes at 25 C°.
Packing	25kg paper bags 40 kg paper bags
Coverage	1 kg/m ² (Coverage rate may vary depending on surface condition).

Surface Preparation

Cement based walls and ceilings are the recommended substrates that can be covered with Cro Finish Fine R. Plastered substrates should be left to cure for at least 14 days prior to application of Cro Finish Repair. Any problem in the substrate which may lead to water penetration must be rectified. All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease, curing



agents, or paint. If the surface is dry and in hot weather, pre-wet prior to the application of Cro Finish Fine R without leaving excess water.

Application procedures

- Scaffolding must be fixed independently to allow for one go application.
- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add number of liters of fresh cool, clean water in one deep container. Then, add the contents of the 25 kg bag gradually and mix till the mixture is uniform and free of lumps. For best results, use as little water as possible. Keep mixing for 3 – 5 minutes, to insure proper mixing and good dispersion of additives.
- Cro Finish Fine R should be immediately applied on the surface to be applied, while the mortar is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.
- Apply Cro Finish Fine R to the prepared surface either by conventional hand applied technique, Tyrolean or using spraying machine.
- It is recommended to apply a scratch coat of the same mixed Cro Finish Fine R prior to application of the final finish. The scratch coat should be left to set for 2 hours and pre-wetted prior to application of second coat.
- Structure the layer with plastic or wooden trowel before the surface dries in order to reach the required architectural finish.
- To achieve color consistency, apply Cro Finish Fine R in panels and complete it around the building.

Important Notes:

- Do not apply Cro Finish Fine R on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through Cro Finish Fine R.



- Using cold water for mixing allows longer initial setting time and improved workability.
- Do not apply Cro Finish Fine R over previously applied paints or gypsum plaster.
- It is advisable to seal the substrates with a suitable sealer such as Cro Seal to avoid inconsistent color finish, when applied on uneven or porous surfaces.
- It is recommended that Cro Finish Fine R should be stopped within 15 cm of the ground floor level and suitable skirting could be used to avoid dampness and discoloration.
- The quantity of mixing water should strictly be monitored between batches to ensure color uniformity, never remix with extra water. Should the mortar start to stiffen, just remix till the consistency gets back to a creamy, workable consistency again.
- To ensure color uniformity it is advisable to apply Cro Finish Repair in the shade, not in direct sun light.
- The work force should be enough to work on large areas, to eliminate cold joints and marks between different applications, it is advisable to apply large areas in one step, or split the large areas with grooved lines (Joints).
- Never cure with water or any curing compounds, as this may affect the color.
- In dusty areas subject to frequent splashes of water such as gardens, it might be advisable to treat the surface using Cro Seal 822 W, a water-repellent material, to be able to clean the stains easily.
- Applied colors may differ slightly from Cro Finish standard color chart due to job-site induced variations, such as application, drying, substrate etc.
- As natural raw materials are used for the production of Cro Finish Fine R, it is advisable to apply the entire façade at one time to ensure color uniformity as minor variations might be observed sometimes.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

DISCLAIMER: While the company guarantees its products against defective materials. Our recommendations are based on extensive research as well as practical experience. Results cannot be guaranteed where the actual application work is beyond our control. Customers must carry out their own investigations and test the suitability of our materials for their intended purposes. Kindly note that this data sheet supersedes any previous prints. For any additional information, please consult our technical marketing department



Cro Chem

Construction Chemical

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.

DISCLAIMER: While the company guarantees its products against defective materials Our recommendations are based on extensive research as well as practical experience. Results cannot be guaranteed where the actual application work is beyond our control. Customers must carry out their own investigations and test the suitability of our materials for their intended purposes. Kindly note that this data sheet supersedes any previous prints. For any additional information, please consult our technical marketing department



Cro Finish Max Coarse TDS

Medium textured decorative finish...

Cement based, high quality, ready mixed color decorative (graviatto finish) façade renders suitable for extreme weather conditions.

Characteristics

Cro Finish Max Corse

Cement based, high quality, extreme weather resistant, color stable, decorative façade render in powder form. Cro Finish Max Corse requires the addition of water on site.

Ideal for internal and external applications over plastered substrates and fair face concrete. Cro Finish Max Corse is specially formulated to provide medium grooved surface texture (graviatto) finish. Cro Finish Max Corse can be applied manually or by spraying machine or Tyrolean to increase productivity and color uniformity. In this case Cro Finish Max Corse will give rough finish surface.

Cro Finish Max Corse F is similar to Cro Finish Max Corse, but it is formulated with finer aggregates that give finer grooved surface texture finished aspect.

Composition

Cro Finish Max Corse is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.

Standards

Cro Finish Max Corse is formulated to comply with DIN EN 998:2003 standard.

Advantages

- Easy to use and apply. Only requires the addition of water.
- Raw materials are selected according to the highest quality control standards.
- Exact mixing ratios and homogeneous blend,
- Excellent mixing and workability characteristics
- Simplicity of usage gives very high productivity rates.



- Minimum surface salt or efflorescence, compared with conventional decorative renders.
- Excellent bonding characteristics and water vapour breath-ability allowing the substrate to breathe without damaging the bonding.
- Excellent resistance to extreme weather conditions

Technical Data

Base	Portland cement, graded clean silica sand and selected additives plus, latex polymer
Application thickness	2-3 mm.
Available Colors	Available in wide range of standard colors
Powder Density	Approx. 1.6 kg/liter
Bond Strength	> 1.0 N/mm ² .
Flexural Strength	> 3.3 N/mm ² .
Compressive Strength	> 10 N/mm ² .
Shrinkage	1.33 mm/m @ 28 days – standard conditions.
Water Absorption Coefficient	2.07 {kg/(m ² .h)}
Mix proportion	Approx. 5±0.25 liters of water/ 25 kg bag. Approx. 8 ±0.25 liters of water/ 40 kg bag.
initial setting time	Approx. 30 minutes at 25 C°.



Packing	25kg paper bags 40 kg paper bags
Coverage	2.75-3.25 Kg/m ² (graviatto finish with hand trowel) 3.5- 5 Kg/m ² (rough texture with spray application). (Coverage rate may vary depending on surface condition).

Surface Preparation

Cement based walls and ceilings are the recommended substrates that can be covered with Cro Finish Max Corse . Plastered substrates should be left to cure for at least 14 days prior to application of Cro Finish Max Corse. Any problem in the substrate which may lead to water penetration must be rectified. All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint. If the surface is dry and in hot weather, pre-wet prior to the application of Cro Finish Max Corse without leaving excess water.

Application procedures

Scaffolding must be fixed independently to allow for one go application.

The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.

Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.

Add water liters as per TDS of fresh cool, clean water in one deep container. Then, add the contents of the 25 kg bag gradually and mix till the mixture is uniform and free of lumps. For best results, use as little water as possible. Keep mixing for 3 – 5 minutes, to insure proper mixing and good dispersion of additives.



Cro Finish Max Corse should be immediately applied on the surface to be applied, while the mortar is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.

Apply Cro Finish Max Corse to the prepared surface either by conventional hand applied technique, Tyrolean or using spraying machine. Ask for our line of mixers and spraying machines.

It is recommended to apply a scratch coat of the same mixed Cro Finish Max Corse prior to application of the final finish. The scratch coat should be left to set for 2 hours and pre-wetted prior to application of second coat.

Structure the layer with plastic or wooden trowel before the surface dries in order to reach the required architectural finish.

To achieve color consistency, apply Cro Finish Max Corse in panels and complete it around the building.

Important Notes

Do not apply Cro Finish Max Corse on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through Cro Finish Max Corse.

Using cold water for mixing allows longer initial setting time and improved workability.

Do not apply Cro Finish Max Corse over previously applied paints or gypsum plaster.

It is advisable to seal the substrates with a suitable sealer such as Cro Sealto avoid inconsistent color finish, when applied on uneven or porous surfaces.

It is recommended that Cro Finish Max Corse should be stopped within 15 cm of the ground floor level and suitable skirting could be used to avoid dampness and discoloration.

The quantity of mixing water should strictly be monitored between batches to ensure color uniformity, never remix with extra water. Should the mortar start to stiffen, just remix till the consistency gets back to a creamy, workable consistency again.



To ensure color uniformity it is advisable to apply Cro Finish Max Corse in the shade, not in direct sun light.

The work force should be enough to work on large areas, to eliminate cold joints and marks between different applications, it is advisable to apply large areas in one step, or split the large areas with grooved lines (Joints).

Never cure with water or any curing compounds, as this may affect the color.

In dusty areas subject to frequent splashes of water such as gardens, it might be advisable to treat the surface using Cro Seal 802, a water-repellent material, to be able to clean the stains easily.

Applied colors may differ slightly from Cro Décor standard color chart due to job-site induced variations, such as application, drying, substrate etc.

As natural raw materials are used for the production of Cro Finish Max Corse , it is advisable to apply the entire façade at one time to ensure color uniformity as minor variations might be observed sometimes.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Finish Coarse TDS

Medium textured decorative finish...

Cement based, high quality, ready mixed color decorative (graviatto finish) façade renders.

Characteristics

Cro Finish coarse

is cement based high quality, weather resistant, color stable, decorative façade render in powder form. Cro Finish Coarse requires the addition of water on site.

Ideal for internal and external applications over plastered substrates and fair face concrete. Cro Finish Coarse is specially formulated to provide medium grooved surface texture (graviatto) finish. Cro Finish Coarse can be applied manually or by spraying machine or Tyrolean to increase productivity and color uniformity. In this case Cro Finish coarse will give rough finish surface.

Cro Finish coarse F is similar to Cro Finish coarse, but it is formulated with finer aggregates that give finer grooved surface texture finished aspect.

Composition

Cro Finish Coarse is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.

Standards

Cro Finish Coarse is formulated to comply with DIN EN 998:2003 standard.

Advantages

- Easy to use and apply. Only requires the addition of water.
- Raw materials are selected according to the highest quality control standards.
- Exact mixing ratios and homogeneous blend,
- Excellent mixing and workability characteristics
- Simplicity of usage gives very high productivity rates.



- Minimum surface salt or efflorescence, compared with conventional decorative renders.
- Excellent bonding characteristics and water vapour breath-ability allowing the substrate to breathe without damaging the bonding.
- Excellent resistance to extreme weather conditions

Technical Data

Base	Portland cement, graded clean silica sand and selected additives plus, latex polymer
Application thickness	2-3 mm.
Available Colors	Available in wide range of standard colors
Powder Density	Approx. 1.6 kg/liter
Shrinkage	1.33 mm/m @ 28 days – standard conditions.
Water Absorption Coefficient	2.07 {kg/(m ² .h)}
Mix proportion	Approx. 5±0.25 liters of water/ 25 kg bag. Approx. 8 ±0.25 liters of water/ 40 kg bag.
initial setting time	Approx. 30 minutes at 25 C°.
Packing	25kg paper bags 40 kg paper bags
Coverage	2.75-3.25 Kg/m ² (graviatto finish with hand trowel) 3.5- 5 Kg/m ² (rough texture with spray application). (Coverage rate may vary depending on surface condition).



Surface Preparation

Cement based walls and ceilings are the recommended substrates that can be covered with Cro Finish Coarse . Plastered substrates should be left to cure for at least 14 days prior to application of Cro Finish Coarse. Any problem in the substrate which may lead to water penetration must be rectified. All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint. If the surface is dry and in hot weather, pre-wet prior to the application of Cro Finish Coarse without leaving excess water.

Application procedures

Scaffolding must be fixed independently to allow for one go application.

The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.

Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.

Add water liters as per TDS of fresh cool, clean water in one deep container. Then, add the contents of the 25 kg bag gradually and mix till the mixture is uniform and free of lumps. For best results, use as little water as possible. Keep mixing for 3 – 5 minutes, to insure proper mixing and good dispersion of additives.

Cro Finish Coarse should be immediately applied on the surface to be applied, while the mortar is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.

Apply Cro Finish Coarse to the prepared surface either by conventional hand applied technique, Tyrolean or using spraying machine. Ask for our line of mixers and spraying machines.

It is recommended to apply a scratch coat of the same mixed Cro Finish Coarse prior to application of the final finish. The scratch coat should be left to set for 2 hours and pre-wetted prior to application of second coat.

Structure the layer with plastic or wooden trowel before the surface dries in order to reach the required architectural finish.



To achieve color consistency, apply Cro Finish Coarse in panels and complete it around the building.

Important Notes

Do not apply Cro Finish coarse on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through Cro Finish Coarse.

Using cold water for mixing allows longer initial setting time and improved workability.

Do not apply Cro Finish Coarse over previously applied paints or gypsum plaster.

It is advisable to seal the substrates with a suitable sealer such as Cro Seal to avoid inconsistent color finish, when applied on uneven or porous surfaces.

It is recommended that Cro Finish Coarse should be stopped within 15 cm of the ground floor level and suitable skirting could be used to avoid dampness and discoloration.

The quantity of mixing water should strictly be monitored between batches to ensure color uniformity, never remix with extra water. Should the mortar start to stiffen, just remix till the consistency gets back to a creamy, workable consistency again.

To ensure color uniformity it is advisable to apply Cro Finish Coarse in the shade, not in direct sun light.

The work force should be enough to work on large areas, to eliminate cold joints and marks between different applications, it is advisable to apply large areas in one step, or split the large areas with grooved lines (Joints).

Never cure with water or any curing compounds, as this may affect the color.

In dusty areas subject to frequent splashes of water such as gardens, it might be advisable to treat the surface using Cro Seal 802, a water-repellent material, to be able to clean the stains easily.

Applied colors may differ slightly from Cro Décor standard color chart due to job-site induced variations, such as application, drying, substrate etc.



As natural raw materials are used for the production of Cro Finish Coarse , it is advisable to apply the entire façade at one time to ensure color uniformity as minor variations might be observed sometimes.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Finish AC TDS

Cement based high quality, ready mixed, color decorative façade coat for extreme weather conditions.

Characteristics

Cro Finish AC is cement based, one component, high quality, polymer modified extreme weather resistant (Anti-Carbonation), color stable decorative coat. Cro Finish AC requires the addition of water on site. Cro Finish AC is ideal for internal and external applications over plastered substrates and fair face concrete. Cro Finish AC can be applied manually by brush or roller. Also, Cro Finish Coat can be applied by spraying machine to increase productivity and color uniformity. In this case Cro Finish AC will give rough finish surface.

Composition

Cro Finish AC is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.

Standards

Cro Finish AC is formulated to comply with DIN EN 998:2003 standard.

Characteristics

- Easy to use and apply. Only requires the addition of water and mixing on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Exact mixing ratios and homogeneity of the blend,
- Available in wide range of uniform colors.
- High resistance to carbon dioxide and extreme weather conditions.
- Excellent mixing and workability characteristics
- The simplicity of usage and application gives very high productivity rates.
- Excellent bonding characteristics to plastered substrates and fair face concrete.



- Breathable, allows the substrate to breathe without de-lamination.

Technical Data

Base	Portland cement, graded clean silica sand and selected additives plus, latex polymer
Application thickness	0.5- 1 mm.
Available Colors	Available in wide range of standard colors
Powder Density	Approx. 1.4 kg/liter
Bond Strength	> 1.0 N/mm ² .
Flexural Strength	> 3.3 N/mm ² .
Compressive Strength	> 10 N/mm ² .
Shrinkage	1.33 mm/m @ 28 days – standard conditions.
Water Absorption Coefficient	2.07 {kg/(m ² .h)}
Mix proportion	Approx. 8.5 ±0.25 liters of water/ 25 kg bag. Approx. 14.8 ±0.25 liters of water/ 40 kg bag.
initial setting time	Approx. 25 minutes at 25 C°.
Packing	25kg paper bags 40 kg paper bags
Coverage	1 Kg/m ² (smooth finish with roller) (Coverage rate may vary depending on surface condition).

Surface Preparation



Cement based walls and ceilings are the recommended substrates that can be covered with Cro Finish AC. Plastered substrates should be left to cure for at least 14 days prior to application of Cro Finish AC Coat. Any problem in the substrate which may lead to water penetration must be rectified. All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint. If the surface is dry and in hot weather, pre-wet prior to the application of Cro Finish AC without leaving excess water.

Application procedures

- Scaffolding must be fixed independently to allow for one go application.
- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add water liters as per TDS of fresh cool, clean water in one deep container. Then, add the contents of the 25 kg bag gradually and mix till the mixture is uniform and free of lumps. For best results, use as little water as possible. Keep mixing for 3 – 5 minutes, to insure proper mixing and good dispersion of additives.
- Cro Finish AC should be immediately applied on the surface to be applied, while it is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.
- Apply Cro Finish AC to the prepared surface either by conventional hand applied technique such as by wide Brush, Roller or by Tyrolean or using hand held air sprayers.
- Once the first coat is applied leave it to dry for 12-24 hours depending on the ambient temperature, and then apply the second coat.
- To achieve color consistency, apply Cro Finish AC in panels and complete it around the building.

Important Notes:

- Do not apply Cro Finish AC on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through Cro Finish AC
- Using cold water for mixing allows longer initial setting time and improved workability.
- Do not apply Cro Finish AC over previously applied paints or gypsum plaster.



- It is advisable to seal the substrates with a suitable sealer such as Cro Seal to avoid inconsistent color finish, when applied on uneven or porous surfaces.
- It is recommended that Cro Finish AC should be stopped within 15 cm of the ground floor level and suitable skirting could be used to avoid dampness and discoloration.
- The quantity of mixing water should strictly be monitored between batches to ensure color uniformity, never remix with extra water. Should the mortar start to stiffen, just remix till the consistency gets back to a creamy, workable consistency again.
- To ensure color uniformity it is advisable to apply Cro Finish AC in the shade, not in direct sun light.
- The work force should be enough to work on large areas, to eliminate cold joints and marks between different applications, it is advisable to apply large areas in one step, or split the large areas with grooved lines (Joints).
- Never cure with water or any curing compounds, as this may affect the color.
- In dusty areas subject to frequent splashes of water such as gardens, it might be advisable to treat the surface using Cro Seal 802, a water-repellent material, to be able to clean the stains easily.
- Applied colors may differ slightly from Cro Finish standard color chart due to job-site induced variations, such as application, drying, substrate etc.
- As natural raw materials are used for the production of Cro Finish AC, it is advisable to apply the entire façade at one time to ensure color uniformity as minor variations might be observed sometimes.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Finish Stone TDS

Cement based high quality, ready mixed, color Decorative (artificial stone finish) façade render.

Characteristics

Cro Finish Stone is cement based high quality, weather resistant, color stable, Decorative thick façade render in powder form. Cro Finish Stone requires the addition of water on site.

Cro Finish Stone is ideal for internal and external applications over plastered substrates and it is specially formulated to provide artificial stone finish.

Composition

Cro Finish Stone is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.

Characteristics

- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Exact mixing ratios and homogeneity of the blend
- Available in wide range of uniform colors.
- Gives modern Decorative finishing style
- Excellent mixing and workability characteristics
- The simplicity of usage and application gives very high productivity rates.
- Maximum protection against salt formation or efflorescence compared with conventional Décor active renders.
- Excellent bonding characteristics to plastered substrates.
- Breathable, allows the substrate to breathe without de-lamination.
- Excellent resistance to weather conditions

Technical Data



Base	Portland cement, graded clean silica sand and selected additives plus, latex polymer
Application thickness	1-2 Cm.
Available Colors	Available in wide range of standard colors
Powder Density	Approx. 1.55 kg/liter
Bond Strength	> 1.0 N/mm ² .
Flexural Strength	> 3.3 N/mm ² .
Compressive Strength	> 10 N/mm ² .
Shrinkage	1.33 mm/m @ 28 days – standard conditions.
Water Absorption Coefficient	2.07 {kg/(m ² .h)}
Mix proportion	Approx. 4.25±0.25 liters of water/ 25 kg bag. Approx.6.5 ±0.25 liters of water/ 40 kg bag.
initial setting time	Approx. 30 minutes at 25 C°.
Packing	25kg paper bags 40 kg paper bags
Coverage	15 Kg/m ² (at 10 mm thickness). (Coverage rate may vary depending on surface condition).

Surface Preparation

- Cement based walls and ceilings are the recommended substrates that can be covered with Cro Finish Stone.



- Plastered substrates should be grooved and should be left to cure for at least 14 days prior to application of Cro Finish Stone. Any problem in the substrate which may lead to water penetration must be rectified.
- All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint.
- If the surface is dry and in hot weather, pre-wet prior to the application of Cro Finish Stone without leaving excess water.

Application Procedures

- Scaffolding must be fixed independently to allow for one go application.
- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add as per TDS fresh, cool, clean water in one deep container. Then, add the contents of the bag gradually and mix till the mixture is uniform and free of lumps. For best results, use as little water as possible. Keep mixing for 3 – 5 minutes, to insure proper mixing and good dispersion of additives.
- Cro Finish Stone should be immediately applied on the surface to be applied, while the mortar is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.
- Apply Cro Finish Stone to the prepared surface in one layer of 10 – 20 mm thickness depending on the required finish.
- Structure the layer with plastic or wooden trowel before the surface dries in order to reach the required application thickness.
- Finish the surface within 2 – 3 hours after application using nailed float if scraped finish is required.
- If hammered stone finish (artificial stone finish) is required, leave it for 7 days prior to starting the hammering process. Use bush hammer or hand held hammer to get the desired finish. Then, clean the surface to remove loose particles.
- To achieve color consistency, apply Cro Finish Stone in panels and complete it around the building.

Important Notes:



- Do not apply Cro Finish Stone on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through Cro Finish Stone.
- Using cold water for mixing allows longer initial setting time and improved workability.
- Do not apply Cro Finish Stone over previously applied paints or gypsum plaster.
- It is recommended that Cro Finish Stone should be stopped within 15 cm of the ground floor level and suitable skirting could be used to avoid dampness and discoloration. The quantity of mixing water should strictly be monitored between batches to ensure color uniformity, never remix with extra water. Should the mortar start to stiffen, just remix till the consistency gets back to a creamy, workable consistency again.
- To ensure color uniformity it is advisable to apply Cro Finish Stone in the shade, not in direct sun light.
- The work force should be enough to work on large areas, to eliminate cold joints and marks between different applications, it is advisable to apply large areas in one step, or split the large areas with grooved lines (Joints).
- Never cure with water or any curing compounds, as this may affect the color.
- In dusty areas subject to frequent splashes of water such as gardens, it might be advisable to treat the surface using Cro Seal 802, a water-repellent material, to be able to clean the stains easily.
- Applied colors may differ slightly from Cro Finish standard color chart due to job-site induced variations, such as application, drying, substrate etc.
- As natural raw materials are used for the production of Cro Finish Stone, it is advisable to apply the entire façade at one time to ensure color uniformity as minor variations might be observed sometimes.

Storage

- Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

- While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



CroCoat TDS

**100% acrylic binder, high quality, ready to use, color decorative finish
façade renders for extreme weather conditions, water based, washable**

Description:

CroCoat 100% acrylic binder high quality ready mixed colored decorative finish façade render, water based strengthened with moraine rocks to give medium roughness surface finish when applied manually by trowel. It is also considered to be extra water resistant (washable)

CroCoat is characterized with its durability, color stable, excellent resistance against extreme weather conditions, flexibility of workability, maximum building protection against carbonation and salt formation or efflorescence compared with conventional decorative renders, gives attractive modern architecture finishing style, covers hair cracks (approximately 1.5 mm), available in wide range of uniform colors.

Composition:

Fine (CC Fine) grading 1 mm Medium coarse (CC Medium) grading 1.5 mm
Coarse (CC Coarse) grading 2 mm

Base	Acrylic elastomeric polymer and special chemical additives
Available Colors	Available in wide range of standard colors
Surface Temperature	From 5 to 30 degree Celsius
Water Absorption	0.2 Kg/(m ² x height) category 2 (C2)
Mix proportion	Ready to use
Specific Weight	1.73 Kg/m ³
Packing	20kg paper bags
Coverage	Fine (CC Fine) (2-2.5 Kg/m ²)



	(CC Medium) (2.5-3 Kg/m ²) (CC Coarse) (2.75-3.25 Kg/m ²) (varies according to surface conditions and the way o
PH Foundations	7.5-8.5
Viscosity	12000 - 12500 CPS at temperature 25 degree
Cracks coverage	1-1.5 mm
Drying Time	2-4 hours at temperature 20 degrees.
Thickness of drying coating layer	1.5-2.5 mm per 1 Layer
Permeability	100 gm/m ²
Adhesion on fair face concrete	1.79 MPa
Wet Friction	> 2000 cycle

Standards: ISO 3233-1998 (E)

Uses:

Concrete surfaces, cement based plastered walls, cement plaster boards, block walls, gypsum boards, old and organic paints are the suitable substrates to be finished by Cro Coat.

Advantages:

10. Raw materials are selected according to the highest quality control standards.
11. Available in wide range of uniform colors.



12. Gives modern decorative finishing style.
13. Excellent workability characteristics.
14. The simplicity of usage and application gives very high productivity rates.
15. Excellent bonding characteristics.

Surface Preparation:

16. All surfaces should be in a good and strong condition, all substrates should be clean and free from any loose particles, dust, oil, grease, curing agents or paints.
 17. Any problem in the substrate which may lead to water penetration must be rectified.
 18. All surfaces should be in a good and strong condition.
 19. All surfaces should also be clean and free from any loose particles, dust, oil, grease.
- Application Procedures:
 - It's advisable use a suitable sealer such as Cro seal before applying Crocoat on surface (according to surface conditions) to avoid salt formation and uniform surface color by flipping product without any addition or dilution before usage by trowel.

Important Notes:

- Do not apply Crocoat directly on gypsum plaster.
- Protection surface against direct sun rays and rain after 24 hours of applying Crocoat to make sure of complete dryness of the render.
- Tools must be washed well after finishing.
- While using the product, gloves and goggles should be worn.

Storage:

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety: While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice



Group 2: Tiles' Fixing & Grouting Products TDS.

Cro Fix :

For fixing ceramic and mosaic tiles

Cro Fix Premium

Ideal for fixing floors and walls ceramic, mosaic and porcelain tiles indoors and outdoors

Cro Fix Marble

Ideal for fixing floors and walls heavy weight ceramic, mosaic, porcelain and marble tiles

Cro Grout Coarse

Wide tiles joints grouting mortar suitable for grouting joints from 4 to 15 mm

Cro Grout

Narrow tiles joints grouting mortar suitable for grouting joints up to 5 mm width





Cro Fix TDS

Cement based, high quality, ready mixed, multipurpose, tile adhesive mortar.

Characteristics

- Cro Fix is cement based high quality, ready mixed, multipurpose adhesive mortar for fixing ceramic and mosaic tiles in powder form. Cro Fix requires the addition of water on site.
- Cro Fix can be applied in thin or thick bed technique and is ideal for fixing floors and wall tiles especially in wet areas such as bathrooms, shower rooms and kitchens, in private and public buildings.
- Cro Fix is suitable for fixing marble, ceramic and mosaic tiles, thin bricks, floor tile with pronounced back-surface pattern to different substrates such as concrete, cement base plastered walls and floor screeds, gypsum and cement plasterboards, block walls and lightweight blocks. For extreme conditions, Cro Fix may be mixed with Cro Bond 65

Composition

Cro Fix is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability and bonding characteristics.

Standards

Cro Fix is formulated to comply with DIN 18156 & ANSI 118.1 and EN 12004 C1 standards.

Characteristics

- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Exact mixing ratios and homogeneity of the blend,
- Excellent mixing and workability characteristics.
- Part of Cro chem wet areas complete systems.
- The simplicity of usage and application gives very high productivity rates.



- Excellent bonding characteristics to plastered substrates and fair face concrete.
- Long open time and initial setting time.

Technical Data

Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	Gray and white.
Application Thickness	From 2 mm up to 10 mm.
Powder Density	Approx. 1.8 kg/lit.
Open Time	Approx. 25 minutes at 25° C.
Adhesive strength	Approx. 0.5 - 1.0 N/mm ²
Initial setting time	Approx. 120 minutes at 25° C.
Time to traffic	24 hours
Packing	25 kg bag 20 kg Bag
Mix Proportion	Approx. 5.25 ±0.25 liters of water / 25 kg bag Approx. 4.25 ±0.25 liters of water / 20 kg bag
Coverage	3 – 5 kg/m ² (Coverage rate may vary depending on surface condition, the type of trowel used and setting practices).

Surface Preparation

DISCLAIMER: While the company guarantees its products against defective materials Our recommendations are based on extensive research as well as practical experience. Results cannot be guaranteed where the actual application work is beyond our control. Customers must carry out their own investigations and test the suitability of our materials for their intended purposes. Kindly note that this data sheet supersedes any previous prints. For any additional information, please consult our technical marketing department



- Cement based walls and screeds should be left to cure for at least 14 days prior to application of Cro Fix. Depressions up to 5 mm depth can be repaired with Cro Fix the day before.
- Rough or uneven concrete surfaces should be made smooth to provide a wood float finish. All substrates should be in a good and strong condition.
- All substrates should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint. Tiles to be fixed should be clean and free from any surface contamination.
- Tiles that will be fixed should be clean and free from any surface contamination. If surface is dry and in hot weather, pre-wet the surface prior to the application of Cro Fix

Application procedures

- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add as per TDS fresh cool, clean water in one deep container. Then, add the contents of the bag gradually while mixing till the mixture is uniform and free of lumps. Leave the mixed material for 10 minutes and re-mix for one minute.
- Cro Fix should be applied while the mortar is fresh and workable (within Initial setting time).
- Apply Cro Fix to the prepared surface using the flat side of the trowel while pressing firmly into the prepared substrate.
- Use suitable notched trowel to ensure full bedding of the tile with 2 – 3 mm minimum uniform thickness. Spread Cro Fix in areas not more than 1.0 m².
- Press tiles firmly into place and gently adjust the level by twisting slightly within 15 minutes ensuring proper transfer of 85% of the mortar to the back of the tiles.
- Leave tiles to dry for at least 24 hours before start grouting. Use Cro Grout G13 or G14 according to joints width.

Important Notes

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- Do not apply Cro Fix on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through tiles applications.
- Using cold water for mixing allows longer initial setting time and improved workability.
- Use Cro Fix White when fixing white or light color Tiles.
- Porous surfaces such as gypsum plasterboards should be sealed with Cro Seal prior to tiles installation using Cro Fix.
- Do not apply Cro Fix on metal surfaces.
- Use plastic spacers to leave the required joint width around each tile according to pattern and Architecture recommendations. Leave 2 mm minimum joint width around tiles.
- Cro Fix is not a replacement for waterproofing membranes. Use Cro Proof P07/P17 when waterproofing membrane is required.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Fix Premium TDS

Cement based, high quality, ready mixed, multi purpose, thin set tile adhesive mortar.

Characteristics

- Cro Fix Premium is cement based high quality, polymer modified, ready mixed, flexible, thin set tile adhesive mortar in powder form. Cro Fix Premium requires the addition of water on site.
- Cro Fix PREMIUM is ideal for fixing floors and wall tiles especially in submerged areas such as swimming pools, water tanks, kitchens, bathrooms, shower rooms and where heavy traffic is present in private and public buildings. Cro Fix PREMIUM is also ideal for fixing ceramic tiles on external facade plastered walls.
- Cro Fix Premium is suitable for fixing marble, porcelain, ceramic and mosaic tiles, thin bricks up to 50 kg/m² weight. The suitable substrates are concrete, cement base plastered walls and floor screeds, gypsum and cement plasterboards, block walls and lightweight blocks. Cro Fix Premium can also be used for fixing new tiles on old glazed ceramic walls and floors tiles.

Composition

Cro Fix Premium is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, flexibility and bonding characteristics.

Standards

Cro Fix Premium is formulated to comply with DIN 18156 & ANSI 118.4 and EN 12004 standards class C2TE..

Characteristics

- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Exact mixing ratios and homogeneity of the blend
- Excellent mixing and workability characteristics.
- Part of Cro Mix wet areas complete systems.
- The simplicity of usage and application gives very high productivity rates.
- Excellent bonding characteristics to different construction materials.
- Excellent water and sag resistance.
- Flexible. Very good resistant to substrate vibrations.



- Temperature resistance from +70°C to –15°C.
- Long open time and initial setting time.

Technical Data

Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	Gray and white.
Application Thickness	From 2 mm up to 10 mm.
Powder Density	Approx. 1.8 kg/lit.
Open Time	Approx. 35 minutes at 25° C.
Initial setting time	Approx. 120 minutes at 25° C.
Adhesive strength	Approx. 1.0 - 1.6 N/mm ²
Time to traffic	24 hours
Packing	25 kg bag 20 kg Bag
Mix Proportion	Approx. 5.25 ±0.25 liters of water / 25 kg bag Approx. 4.25 ±0.25 liters of water / 20 kg bag
Coverage	3 – 5 kg/m ² (Coverage rate may vary depending on surface condition, the type of trowel used and setting practices).

Surface Preparation

- Cement based walls and screeds should be left to cure for at least 14 days prior to application of Cro Fix Premium. Depressions up to 5 mm depth can be repaired with Cro Fix Premium the day before.
- Rough or uneven concrete surfaces should be made smooth to provide a wood float finish.



- All substrates should be in a good and strong condition.
- All substrates should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint.
- Tiles to be fixed should be clean and free from any surface contamination.
- If the surface is dry and in hot weather, pre-wet prior to the application of Cro Fix Premium without leaving excess water.

Application procedures

- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add 5.5 liters of fresh cool, clean water in one deep container. Then, add the contents of the 25 kg bag gradually while mixing till the mixture is uniform and free of lumps. Leave the mixed material for 10 minutes and re-mix for one minute.
- Cro Fix Premium should be applied while the mortar is fresh and workable (within Initial setting time).
- Apply Cro Fix Premium to the prepared surface using the flat side of the trowel while pressing firmly into the prepared substrate.
- Use suitable notched trowel to ensure full bedding of the tile with 2 – 3 mm minimum uniform thickness. Spread Cro Fix Premium in areas not more than 1.0 m².
- Press tiles firmly into place and gently adjust the level by twisting slightly within 15 minutes ensuring proper transfer of 85% of the mortar to the back of the tiles.
- Leave tiles to dry for at least 24 hours before start grouting. Use Cro Grout according to joints width.

Important Notes

- Do not apply Cro Fix PREMIUM on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through tiles applications.
- Using cold water for mixing allows longer initial setting time and improved workability.
- Use Cro Fix PREMIUM White when fixing white or light color stone.
- Porous surfaces such as gypsum plasterboards should be sealed with Cro Seal prior to tiles installation using Cro Fix F02.



- Do not apply Cro Fix PREMIUM on metal surfaces.
- Use plastic spacers to leave required joint width around each tile according to pattern & Architecture recommendations. Leave 2mm minimum joint width around tiles.
- Cro Fix PREMIUM is not a replacement for waterproofing membranes. Use Cro Proof P07/P17 when waterproofing membrane is required.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.

Cro Fix Marabel TDS

Cement base, high quality, ready mix, extra flexible, thin set tile adhesive mortar.

Characteristics

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- Cro Fix Marabel is cement base high quality, highly polymer modified, ready mix, flexible, thin set tile adhesive mortar in powder form. Cro Fix Marble requires the addition of water on site.
- Cro Fix Marble is ideal for fixing tiles especially in submerged areas such as swimming pools, water tanks, kitchens, bathrooms, shower rooms and where heavy traffic is present in private and public buildings. Cro Fix Marble is also ideal for fixing marble tiles on external facade plastered walls.
- Cro Fix Marble is suitable for fixing heavy weight marble, porcelain, ceramic and mosaic tiles, thin bricks up to 70 kg/m² weight. The suitable substrates are concrete, cement base plastered walls and floor screeds, gypsum and cement plasterboard, block walls and lightweight blocks. Cro Fix Marble can also be used for fixing new tiles on old glazed ceramic walls and floor tiles.

Composition

Cro Fix Marble is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, flexibility and bonding characteristics.

Standards

Cro Fix Marble is formulated to comply with DIN 18156 & ANSI 118.11 and EN 12004 standards C2 TES2.

Characteristics

- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Exact mixing ratios and homogeneity of the blend,
- Excellent mixing and workability characteristics.
- Part of Cro Mix wet areas complete systems.
- The simplicity of usage and application gives very high productivity rates.
- Excellent bonding characteristics to different construction materials.
- Excellent water and sag resistance.
- High flexibility. Excellent resistant to substrate vibrations.
- Temperature resistance from +70°C to –30°C.
- Long open time and initial setting time.

Technical Data



Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	Gray and white.
Application Thickness	From 2 mm up to 10 mm.
Powder Density	Approx. 1.8 kg/lit.
Open Time	Approx. 40 minutes at 25° C.
Initial setting time	Approx. 120 minutes at 25° C.
Adhesive strength	Approx. 1.5 - 2.1 N/mm ²
Time to traffic	24 hours
Packing	25 kg bag 20 kg Bag
Mix Proportion	Approx. 6 ±0.25 liters of water / 25 kg bag Approx. 4.8 ±0.25 liters of water / 20 kg bag
Coverage	3 – 5 kg/m ² (Coverage rate may vary depending on surface condition, the type of trowel used and setting practices).

Surface Preparation

Cement based walls and screeds should be left to cure for at least 14 days prior to application of Cro Fix Marble. Depressions up to 5 mm depth can be repaired with Cro Fix Marble the day before. Rough or uneven concrete surfaces should be made smooth to provide a wood float finish. All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint. Tiles to be fixed should be clean and free from any surface contamination. If the surface is dry and in hot weather, pre-wet prior to the application of Cro Fix Marble without leaving excess water.



Application procedures

- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add 5 liters of fresh cool, clean water in one deep container. Then, add the contents of the 25 kg bag gradually while mixing till the mixture is uniform and free of lumps. Leave the mixed material for 10 minutes and re-mix for one minute.
- Cro Fix Marble should be applied while the mortar is fresh and workable (within Initial setting time).
- Apply Cro Fix Marble to the prepared surface using the flat side of the trowel while pressing firmly into the prepared substrate.
- Use suitable notched trowel to ensure full bedding of the tile with 2 – 3 mm minimum uniform thickness. Spread Cro Fix Marble in areas not more than 1.0 m².
- Press tiles firmly into place and gently adjust the level by twisting slightly within 15 minutes ensuring proper transfer of 85% of the mortar to the back of the tiles.
- Leave tiles to dry for at least 24 hours before start grouting. Use Cro Grout according to joints width.

Important Notes

- Do not apply Cro Fix Marble on movement joints or on dynamic cracked plastered walls. Expansion joints should be included as per the substrate design and carried out through tiles applications.
- Using cold water for mixing allows longer initial setting time and improved workability.
- Use Cro Fix Marble White when fixing white or light color stone.
- Porous surfaces such as gypsum plasterboards should be sealed with Cro Sealprior to tiles installation using Cro Fix Marble.
- Do not apply Cro Fix Marble on metal surfaces.
- Use plastic spacers to leave the required joint width around each tile according to pattern and Architecture recommendations. Leave 2 mm minimum joint width around tiles.
- Cro Fix Marble is not a replacement for waterproofing membranes. Use CroProof 507/505 when waterproofing membrane is required.



Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Grout TDS

Cement based, high quality, ready mixed, color narrow joints grouting mortar.

Characteristics

- Cro Grout is cement based high quality; polymer modified, color, decorative narrow joints grouting mortar in powder form. Cro Grout wide requires the addition of water on site.
- Cro Grout is ideal for internal and external applications. It provides smooth, dense and durable walls and floors tiles joints grouts for narrow joints up to 5 mm width.
- For extreme conditions, Cro Grout may be mixed with CroBond 65 diluted with water at 1:4 mixing ratio. Where antibacterial properties are required and where high humidity is encountered, mix Cro Grout with CroSeal44.

Composition

Cro Grout is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.

Standards

Cro Grout is formulated to comply with **ANSI 118.6** standards.

Uses

Cro Grout is used for grouting narrow joints for ceramic, porcelain, marble and tiles joints in the following applications:

- Walls and floors tiles in wet areas such as shower rooms, bathrooms, kitchens, balconies ...etc.
- Wall and floor tiles in water structures such as swimming pools, water reservoirs, water treatment plants ...etc.
- Floor tiles in private and public buildings where heavy traffic is present.

Characteristics

- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Available in wide range of uniform colors.
- Part of Cro chem wet areas complete systems.
- The simplicity of usage and application gives very high productivity rates.
- Excellent bonding characteristics.



- Excellent resistance to extreme weather conditions.
- Extreme temperature resistance from - 20°C to +70 °C

Technical Data

Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	Available in wide range of standard colors
Application Thickness	Up to 5 mm.
Powder Density	Approx. 1.2 kg/lit.
Open Time	Approx. 30 minutes at 25° C.
Initial setting time	Approx. 60 minutes at 25° C.
Time to traffic	24 hours
Packing	15 kg bag paper bag 5 kg Bag Plastic
Mix Proportion	Approx. 6 ±0.2 liters of water / 20 kg bag Approx. 1.5 ±0.2 liters of water / 5 kg bag
Coverage	35-40 LM/ kg (for 3mm joints width $C = 0.18 \times E \times H \times ((L + W) / L \times W)$ C= Consumption (Kg /m ²) E= Joint Width (mm) H= Tile Thickness (mm) L= Tile Length (cm) W= Tile Width (cm) (L x W) (Coverage rate may vary depending on surface condition, the type of trowel used and setting practices).

Surface Preparation



Before starting grouting applications, remove tiles spacers. Joints to be grouted should be free from dust. Pre-wet the joints prior to the application of Cro Grout 14 without leaving excess water.

Application procedures

- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer.
- Add fresh cool, clean water in one deep container as per TDS. Then, add the contents of the bag gradually and mix for two minutes, allow to stand for approx. 3 minutes, and then remix to ensure a uniform and lumps free mixture is obtained. The mixed materials may be used during its initial setting time.
- Apply Cro Grout with a rubber float holding the float at 45° angle. Apply with downward pressure ensuring that joints are completely filled. Remove excess materials using rubber float by skimming off in a diagonal direction from the tile surface.
- Wait approx. 10 - 15 minutes or until joint grouting mortar begins to stiffen.
- Wipe clean freshly grouted tiles with a damp sponge and clean off.
- After the grout is dry, remove any residual grout film on surface with a smooth cloth.

Important note:

Differences in the absorbency of the ceramic tile edges, excess water used in mixing or cleaning of grout, different drying rate and moisture level in the surface can lead to discoloration and color variances in the grout joints.

Storage

Shelf life is at least 12 months from the manufacturing date when stored in a dry covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice



Cro Grout Coarse TDS

Cement based, high quality, ready mixed, color wide joints grouting mortar.

Characteristics

Cro Grout Coarse is cement based high quality, polymer modified, color, decorative wide tiles joints grouting mortar in powder form. Cro Grout Coarse requires the addition of water on site.

Cro Grout Coarse is ideal for internal and external applications. It provides dense and durable walls and floors tiles joints grouts for joints from 4 mm to 15 mm width. Cro Grout Coarse can also be used for grouting glass bricks joints. For extreme conditions, Cro Grout Coarse may be mixed with Cro Bond 65 diluted with water at 1:4 mixing ratio. Where antibacterial properties are required and where high humidity is encountered, mix Cro Grout Coarse with Cro Seal 444.

Composition

Cro Grout Coarse is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and color stability against U.V and resistant to extreme weather conditions.

Standards

Cro Grout Coarse is formulated to comply with **ANSI 118.6** standards.

Uses

Cro Grout Coarse is used for grouting Wide joints for ceramic, porcelain, marble and tiles joints in the following applications:

- Walls and floors tiles in wet areas such as shower rooms, bathrooms, kitchens, balconies ...etc.
- Wall and floor tiles in water structures such as swimming pools, water reservoirs, water treatment plants ...etc.
- Floor tiles in private and public buildings where heavy traffic is present.

Characteristics

- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Available in wide range of uniform colors.
- Part of Cro chem wet areas complete systems.
- The simplicity of usage and application gives very high productivity rates.



- Excellent bonding characteristics.
- Excellent resistance to extreme weather conditions.
- Extreme temperature resistance from - 20°C to +70 °C

Technical Data

Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	Available in wide range of standard colors
Application Thickness	4-15 mm
Powder Density	Approx. 1.4 kg/lit.
Open Time	Approx. 30 minutes at 25° C.
Initial setting time	Approx. 60 minutes at 25° C.
Time to traffic	24 hours
Packing	20 kg bag paper bag 5 kg Bag Plastic
Mix Proportion	Approx. 4.2 ±0.2 liters of water / 20 kg bag Approx. 1 ±0.2 liters of water / 5 kg bag
Coverage	13-15 LM/ kg (for 6 mm joints width $C = 0.18 \times E \times H \times ((L + W) / L \times W)$ C= Consumption (Kg /m ²) E= Joint Width (mm) H= Tile Thickness (mm) L= Tile Length (cm) W= Tile Width (cm) (L x W (Coverage rate may vary depending on surface condition, the type of trowel used and setting practices).

Surface Preparation



Before starting grouting applications, remove tiles spacers. Joints to be grouted should be free from dust. Pre-wet the joints prior to the application of Cro Grout without leaving excess water.

Application procedures

- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer.
- Add fresh cool, clean water in one deep container as per TDS. Then, add the contents of the bag gradually and mix for two minutes, allow to stand for approx. 3 minutes, and then remix to ensure a uniform and lumps free mixture is obtained. The mixed materials may be used during its initial setting time.
- Apply Cro Grout Coarse with a rubber float holding the float at 45° angle. Apply with downward pressure ensuring that joints are completely filled. Remove excess materials using rubber float by skimming off in a diagonal direction from the tile surface.
- Wait approx. 10 - 15 minutes or until joint grouting mortar begins to stiffen.
- Wipe clean freshly grouted tiles with a damp sponge and clean off.
- After the grout is dry, remove any residual grout film on surface with a smooth cloth.

Important note: Differences in the absorbency of the ceramic tile edges, excess water used in mixing or cleaning of grout, different drying rate and moisture level in the surface can lead to discoloration and color variances in the grout joints.

Storage

Shelf life is at least 12 months from the manufacturing date when stored in a dry covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice



Cro Chem
Construction Chemical

Group # 3: Walls & Ceilings Plastering Products TDS .

Cro Gyplast

Cro Plast 301

Cro Plast 308

Cro Mortar

Cro Mortar F

DISCLAIMER: While the company guarantees its products against defective materials Our recommendations are based on extensive research as well as practical experience. Results cannot be guaranteed where the actual application work is beyond our control. Customers must carry out their own investigations and test the suitability of our materials for their intended purposes. Kindly note that this data sheet supersedes any previous prints. For any additional information, please consult our technical marketing department



[Cro Gyplast TDS](#)

Gypsum based, high quality, ready mixed, leveling plaster in the form of whitish powder.

Characteristics

Cro Gyplast

Is a leveling plaster in the form of whitish powder, ready for manual application after the addition of the specific amount of water. It's mechanically mixed and automatically packed with constant tested ratios, composed from primary raw materials and high-quality additives enhancing the product performance. Natural elements compose 98% of the total weight of Cro Gyplast as it contains Perlite, a light weight volcanic granules after thermal treatment to be used as light weight filler replacing sand. After adding the right portion of clean water, it gives a homogeneous mortar ready for application without any further additives.

Composition

- After its setting gives a hard and thick coat that can reach up to 5 cm per layer (a filling coat) without the need or slurry projection.
- It also features a very high adhesion to concrete and all types of bricks substrates.
- In addition, it provides the high coverage rate with the lowest percentage of waste, a very high productivity per worker per day and an ability to build a thickness up to 5 cm every hour if needed.
- gives a rough decorative texture that can be smoothed using Cro Gyplast smooth one.
- Works as a filling and leveling plaster on top of different types of substrates with a thickness up to 5 cm per layer with the ability a new layer every hour till the alignment with the screeds with a very low percentage of waste.

Standards

Gypsum Building Plaster (B4) with an initial setting time >20 min and compressive strength $\geq 2,0 \text{ N/mm}^2$

GYPSUM BUILDING PLASTER EN 13279-1 – B4/20/2



Uses

- Is a leveling plaster in the form of whitish powder
- Perfect for sites, where flooring systems has already been installed due to the extreme ease of cleaning.
- Light weight, Cro Gyplast weight per m² represents 45% of the weight of traditional plastering materials per m²

Characteristics

- E Aids thermal insulation which reduces the required heating and cooling energy which in return is reflected on the cost of consumption of electricity.
- Rich with adhesion additives eliminating the need for cement slurry projection before application.
- The consistence of the mortar after mixing with water and cohesion additives included in its formula reduces significantly the application waste compared to traditional methods
- At the end, the final surface is a whitish, strong and decorative rough texture
- Doesn't ignite and delays the spreading of fire.
- Very healthy both during application or housing and doesn't cause any odors.
- Environment friendly as it consumes a low thermal energy during manufacturing and it is packed in recyclable sacks.
- Easy to prepare, only spray the powder to the indicated ratio of water then mix thoroughly till reaching the required consistency.
- Adjusted setting time ranging 40-60 mins according to application and storage conditions as about it .

Technical Data

Base	Portland cement, graded clean silica sand, and selected additives.
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Available Colors	Available in wide range of standard colors
Application Thickness	1- 5 Cm in one layer
Wet Density	Approx. 1.25 :1.4 kg/lit.
PH value	7-8
compressive strength	Approx. ≥ 10 N/mm ²
Open Time	Approx. 40 minutes at 25° C.
Initial setting time	Approx. 50 minutes at 25° C.
Time to traffic	24 hours
Packing	30.3 kg paper bag ton 33 Bag
Mix Proportion	50:60% water
Coverage	1 m ² / 17.8 kg thickness 2mm bag 1.7 m ² 1m ² / 44.5 kg thickness 5 mm (Coverage rate may vary depending on surface condition, the type of trowel used and setting practices).

Surface Preparation

Substrate must be sound, free from dust, loose particles, cement laitance, curing compounds, oil, grease or any other contamination

Ensure the mixing container and the application tools are clean especially from waste of previous mix and it's recommended to clean the tools directly after usage

Application procedures

- Cro Gyplast is sprayed on water with the right ratios (Don't add water to powder), then leave for 2 mins till it soaks completely. Stir the mix perfectly in all directions till reaching a homogeneous mortar with the convenient consistency for the application. It is preferred to use mechanical mixing.



- Cro Gyplast is workable for 45 mins starting from the start of mixing, initial setting in 55 mins and reaches final setting in 2 days on average according surface conditions, and thickness, weather conditions and humidity.
- Apply Cro Gyplast directly on bricks, concrete ceilings with the required thickness with a maximum thickness of 50 mm per layer. You can apply a new layer each hour. After building the thickness Cro Gyplast is levelled using ruler (preferably edged ruler).

Storage

Shelf life is at least 12 months from the manufacturing date when stored in a dry covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice



[Cro Plast 301 TDS](#)

Cement based, high quality, ready mixed, smooth finish plastering mortar for mechanical spray application.

Characteristics

- Cro Plast 301 is cement based high quality, water and weather resistant plastering mortar in powder form.
- Cro Plast 301 requires the addition of water on site.
- Cro Plast 301 is specially formulated to provide smooth finish plaster to replace the conventional sand-cement render. Cro Plast 301 can be applied using spray machine and can also be applied manually.
- Applying Cro Plast 301 with spraying machines gives very high productivity and better adhesion compared to traditional application.
- Cro Plast 301 is an ideal substrate for application of putty, paints and wallpaper.

Composition

Cro Plast 301 is manufactured from carefully selected raw materials which include a blend of high strength hydraulic binders, well graded fillers, and special additives to enhance workability, water retention, adhesion and surface smoothness.

Standards

formulated to comply with DIN 18550 & ASTM C926- standards.

Uses

- Basic rough levelling of mineral-based walls, and levelling and undercoating concrete, lightweight concrete, lightweight blocks and brick walls.
- Filling holes and irregularities, levelling and covering ceilings.
- Repairing, levelling and undercoating old rendered surfaces
- Creating a levelled surface on a very uneven masonry or concrete.
- Finishing plastering mortars are suitable for smoothing or fine-smoothing walls and ceilings
- Decorating the indoor environment
- Creating an indoor environment free of pollutants



- Saving energy in climate-controlled environments
- Characteristics.**
- Easy to use and apply. Only requires the addition of water on site for ease of use.
 - Raw materials are selected according to the highest quality control standards.
 - Excellent mixing, spraying and application characteristics.
 - The simplicity of usage and application gives very high productivity rates.
 - Excellent bonding characteristics.
 - Excellent resistance to extreme weather conditions.
 - Maximum protection against salt formation or efflorescence compared with conventional plasters.

Technical Data

Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	Gray
Powder density	Approx. 1.6 kg/lit.
compressive strength	Approx. ≥ 8 N/mm ² at 28 days
Open Time	Approx. 20 minutes at 25° C.
Initial setting time	Approx. 25 minutes at 25° C.
Packing	40 kg paper bag
Mix Proportion	Approx. 6.5 $\pm$ 0.25 liters of water/ 40 kg bag.
Coverage	16 kg/m ² at 1 cm thickness. (Coverage rate may vary depending on surface condition)

Surface Preparation

- Brick & block walls and concrete walls and ceilings are the recommended substrates that can be plastered with Cro Plast 301 .
- All surfaces should be in a good and strong condition.
- All surfaces should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint.



- If the surface is dry and in hot weather, pre-wet prior to applying Cro Plast 301 without leaving excess water.
- Smooth concrete surfaces should be mechanically roughened, and then spatter dash coat should be applied prior to applying Cro Plast 301 .

Application procedures

- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add fresh cool, clean water in one deep container. Then, add the contents of the 40 kg bag gradually and mix till the mixture is uniform and free of lumps.
- Cro Plast 301 should be immediately applied on the surface to be plastered, while the mortar is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.
- Apply Cro Plast 301 to the prepared surface either using spraying machine or conventional hand application. Ask for our line of mixer application pumps and hand spraying recommendations.
- To build up thickness using Cro Plast 301 , it should be done in layers of 1.5 - 2.5 cm thickness each till the level of fill is reached.
- If the total desired plastered thickness is more than 4 cm, use it with 1 liter of CroBond 65 as a base coat, leaving 1.5-2.0 cm to be sprayed with Cro Plast 301 as finishing plaster coat.
- Cro Plast 301 should be levelled using a straight bar. The plastered levelled surface should be finished using a smooth hand trowel till smooth surface is attained.
- Cure the plastered surface for 3 days by spraying water on it.

Storage

Shelf life is at least 12 months from the manufacturing date when stored in a dry covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice



Cro Plast 308 TDS

Cement based, high quality, ready mixed, spatter dash (Tartasha) mortar for plastering on masonry blocks and concrete Surfaces.

Characteristics

- Cro Plast 308 is cement based high quality, ready mixed, spatter dash mortar in powder form.
- Cro Plast 308 requires the addition of water on site.
- Cro Plast 308 is specially formulated to be used as scratch coat and spatter dash mortar on masonry block sand concrete surfaces prior to the application of conventional plaster.
- Cro Plast 308 can be applied using manual spray machine and can also be applied manually. Applying Cro Plast 308 with spraying machines gives very high productivity and better adhesion compared to traditional application.
- Cro Plast 308 is suitable for dry and wet areas whether indoors or outdoors.

Composition

Cro Plast 308 is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders and selected well clean silica sand.

Standards

formulated to comply with the Egyptian Standards for Plastering.

Uses

- Basic rough levelling of mineral-based walls, and levelling and undercoating concrete, lightweight concrete, lightweight blocks and brick walls.
- Filling holes and irregularities, levelling and covering ceilings.
- Repairing, levelling and undercoating old rendered surfaces
- Creating a levelled surface on a very uneven masonry or concrete.
- Finishing plastering mortars are suitable for smoothing or fine-smoothing walls and ceilings
- Decorating the indoor environment
- Creating an indoor environment free of pollutants
- Saving energy in climate-controlled environments

Characteristics.



- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Excellent mixing, spraying and application characteristics.
- The simplicity of usage and application gives very high productivity rates.
- Excellent bonding characteristics to masonry blocks and concrete walls and ceilings.
- Excellent resistance to extreme weather conditions.
- Maximum protection against salt formation or efflorescence compared with conventional plasters.

Technical Data

Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	Gray
Powder density	Approx. 1.6 kg/lit.
compressive strength	Approx. ≥ 15 N/mm ² at 28 days
Open Time	Approx. 25 minutes at 25° C.
Initial setting time	Approx. 30 minutes at 25° C.
Packing	40 kg paper bag
Mix Proportion	Approx. 8 $\pm$ 0.25 liters of water/ 40 kg bag.
Coverage	4-5 kg/m ² (Coverage rate may vary depending on surface condition)

Surface Preparation

- Brick & block walls and traditional concrete walls and ceilings are the recommended surfaces that can be plastered with Cro Plast 308.
- In case of fair face concrete surfaces, Use Cro Plast 308 with Cro Bond 65. Please refer to the technical data sheet of Cro Bond 65.
- All surfaces should be in a good and strong condition.
- All surfaces should also be clean and free from any loose particles, dust, oil, grease, curing agents, or paint.



- If the surfaces is dry and in hot weather, pre-wet the surface prior to application, without leaving excess water.

Application procedures

- The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.
- Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.
- Add 8 liters of fresh cool, clean water in one deep container. Then, add the contents of the 40 kg bag gradually and mix till the mixture is uniform and free of lumps.
- Cro Plast 308 should be immediately applied on the surface to be plastered, while the mortar is fresh and workable.
- Apply Cro Plast 308 to the prepared surface either using manual spray machine or conventional hand application.
- Apply one coat of Cro Plast 308 in a spatter dash form at thickness up to 5 mm, using manual spray machine or conventional hand application to produce rough textured surface.
- Cure for 24 hours by spraying water on it (minimum twice/day and according to weather conditions).
- Spatter dash coat Cro Plast 308 should be washed with water to remove dust, prior to filling with base coat plaster.
- The spatter dash coat made of Cro Plast 308 should be filled with base coat plaster using (Cro Plast 301 , Mortar, Cro Gyplast)

Storage

Shelf life is at least 12 months from the manufacturing date when stored in a dry covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice

Group 4: Putties TDS.

Cro Putty

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Cro Chem

Construction Chemical

Cro Putty CR

Cro Putty 100

El Ostaz 120 ® (trade Mark)



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Cro Putty TDS

Cement base, high quality, polymer modified, and one component putty for internal and external painting applications.

Characteristics

Cro Putty is cement base, high quality, ready mix, polymer modified, and one component putty in powder form. Cro Putty requires the addition of water on site.

Cro Putty is ideal for smoothing internal and external cement base plastered walls and ceilings and fair face concrete prior to painting and coating applications. Cro Putty can also be used for patching of pre-cast concrete products. Cro Putty has excellent adhesion and long term crack resistance even at extreme weather conditions.

Cro Putty provides protective base for the interior and exterior paints and helps in reducing the frequency of repainting.

Cro Putty is specially formulated to provide smooth, water resistance putty when applied manually by putty knife / spatula. Also, Cro Putty can be applied by spraying machine to increase productivity. In this case Cro Putty will give rough finish surface.

Composition

Cro Putty is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded micronized fillers and special additives to enhance workability, water retention, adhesion and smoothing characteristics.

Standards

Cro Putty is formulated to comply with DIN 18550 standard.

Characteristics

- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Exact mixing ratios and homogeneity of the blend,
- Excellent mixing and workability characteristics.



- Excellent water retention characteristics help minimizing pre-wetting and water curing.
- Compatible with most types of paints such as emulsions paints, oil enamel paints, decorative paints and cement base coatings.
- Water resistance. Prevents paints from flaking even if the walls are damp.
- Can be applied at thickness from 0.2 mm up to 4 mm per layer without cracks (maximum two coats per day).
- Excellent bonding characteristics to plastered substrates and fair face concrete.
- Breathable, allows the substrate to breath without de-lamination.
- Excellent resistance to extreme weather conditions and ambient temperatures variation from - 20° C to + 70°C.
- More economic than acrylic base putties as there is no need of primer coat.

Technical Data

Color	Gray and White.
Compressive Strength	> 8 N/mm ²
Flexural Strength	> 3 N/mm ²
Bond Strength	> 1 N/mm ²
Shrinkage (mm/m)	2.04 mm/m at 28 days
Water Absorption, 24 H	0.5 ml (PML 518 Karsten tube water droplet test)
Packing	25 kg paper bag
Mix Proportion	Approx. 8.5 ± 0.25 liters of water / 25 kg bags.
Coverage	0.5 – 0.75 kg/m ² (smooth finish with hand applications). 2 – 2.5 kg/m ² (rough texture with spray application). (Coverage rate may vary depending on surface condition).

Surface Preparation



Cement based walls and ceilings are the recommended substrates that can be smoothed with Cro Putty 101. Plastered substrates should be left to cure for at least 3 days prior to application of Cro Putty 101. All substrates should be in a good and strong condition and free from any loose particles, dust, oil, grease or curing agents. If the surface is dry and in hot weather, pre-wet prior to the application of Cro Putty without leaving excess water.

Application procedures

- The whole contents of the bag should be mixed together with water in one container using a hand drill equipped with mixing blade or high shear stationary mixer.
- Partial small amounts may be mixed manually with a spatula or other suitable hand mixing tools.
- Add 7 litres of fresh cool, clean water in one deep container. Then add the contents of the 18 kg bag gradually while mixing till the mixture is uniform and free of lumps.
- For best results, use as little water as possible. Keep mixing for 3 – 5 minutes to ensure proper mixing and good dispersion of additives.
- Cro Putty should be immediately applied on the prepared surface while the mortar is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.
- Apply Cro Putty to the prepared surface by conventional hand application technique using putty knife / spatula.
- Cro Putty can also be applied using spraying machine followed by smoothing to desired surface texture. In this case the quantity of mixing water may be increased till flow able consistency will be achieved.
- Leave the first layer to dry for at least 2 hours prior to the application of the following layers. Pre-wet the first layer before applying the following layer.
- It is recommended to apply Cro Putty at 2 layers minimum.
- Smooth the surface using sand paper till the desired finish is achieved.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Putty CR TDS

Cement based high quality, polymer modified, one component, ready mixed skim coat mortar.

Description:

Cro Putty CR is cement based, high quality, polymer modified, one component ready mixed skim coat mortar in powder form.

Cro Putty CR requires the addition of water on site.

Cro Putty CR is ideal for cosmetic repair of concrete surfaces defects such as honeycombs, surface static cracks and formwork alignment deformation.

Cro Putty CR can also be used for patching of pre-cast concrete products. It is specially formulated to be used as a skim coat and fairing mortar prior to the application of Cro Putty & Cro Putty 100 systems.

Cro Putty CR can also be used as a smooth thin plaster render on smooth and rough concrete surfaces.

Cro Putty CR will give smooth finish when applied manually by putty knife / spatula / steel trowel. Also,

Cro Putty CR can be applied by spraying machine to increase productivity, In this case Cro Putty CR will give rough finish surface.

Cro Putty CR is water and weather resistant and it is ideal for indoor and outdoor finishing applications.

Composition:

Cro Putty CR is manufactured from carefully selected raw materials which include a blend of high strength hydraulic binders, well graded fillers, and special additives to enhance workability, water retention, high adhesion too difficult to bond surfaces and smoothing characteristics.

Standards:

Cro Putty CR is formulated to comply with DIN 18550 standard.

Characteristics



- . Easy to use and apply. Only requires the addition of water on site for ease of use
- . Raw materials are selected according to the highest quality control standards
- . Exact mixing ratios and homogeneity of the blend, due to factory fully computerized production process
- . Excellent mixing and workability characteristics
- . Excellent water retention characteristics helps minimizing pre-wetting and water curing
- . Compatible with most types of finishing materials such as water based emulsion, oil enamel based, epoxy, polyurethane and cement based coatings
- . Extreme temperature resistance from -30°C to +70°C
- . The simplicity of usage and application gives very high productivity rates
- . Excellent bonding characteristics to fair face concrete
- . Breathable, allows the substrate to breath without de-lamination
- . Excellent resistance to extreme weather conditions

Technical Data

Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	Gray & White
Powder density	Approx. 1.45 kg/lit.
Application Thickness	From 3 mm up to 12 mm
Pot life	Approx. 30 minutes at 25°C.
Compressive strength	> 5.0 N/mm ²
Packing	40 kg paper bag
Mix Proportion	Approx. 8 ±0.25 liters of water/ 40 kg bag.



Coverage	1.5 – 1.6 kg/m ² at 1 mm thickness. (Coverage rate may vary depending on surface condition)
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Surface Preparation

Cement based walls and ceilings are the recommended substrates that can be covered with Cro Putty CR. Any problem in the substrate which may lead to water penetration must be rectified. All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease or curing agents. If the surface is dry and in hot weather, pre-wet prior to the application of Cro Putty CR without leaving excess water

Application procedures:

The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.

Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools.

Add the required quantity of fresh cool, clean water in one deep container. then add the contents of the bag gradually while mixing till the mixture is uniform and free of lumps. for best results, use as little water as possible. keep mixing for 3 - 5 minutes to insure proper mixing and good dispersion of additives.

Cro Putty CR should be immediately applied on the surface to be applied, while the mortar is fresh and workable. In case of delay, do not add additional water. Remix till the mortar is workable again.

Apply Cro Putty CR to the prepared surface either by conventional hand applied technique, or using spraying machine followed by smoothing to desired surface texture. In this case the quantity of mixing water may be increased till flowable consistency will be achieved. Ask for our line of mixers and spraying machines.

Cro Putty CR can be applied at thickness up to 12 mm per layer (max. 2 coats per day)

Storage



Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Putty 100 TDS

Cement based, high quality, ready mixed one component putty for smoothing internal and external surfaces prior to painting and coating applications.

Description

Cro Putty 100 is cement based, high quality, ready mixed, polymer modified, one component putty in powder form. Cro Putty 100 requires the addition of water on site.

Cro Putty 100 is ideal for smoothing cement based plastered walls and ceilings prior to painting and coating applications. Cro Putty 100 can also be used for patching of pre-cast concrete products. Cro Putty 100 is specially formulated to provide smooth finish when applied manually by putty knife / spatula. Also, Cro Putty 100 can be applied by spraying machine to increase productivity. In this case Cro Putty 100 will give rough finish surface.

Cro Putty 100 is ideal for indoor and outdoor finishing applications.

Composition

Cro Putty 100 is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance workability, water retention, adhesion and smoothing characteristics

Characteristics:

- Easy to use and apply. Only requires the addition of water on site for ease of use.
- Raw materials are selected according to the highest quality control standards.
- Excellent mixing and workability characteristics.
- Compatible with most types of paints & coatings such as water based emulsion, oil enamel based and cement based coatings.
- Extreme temperature resistance from -30°C to +70°C. The simplicity of usage and application gives very high productivity rates.
- Excellent bonding characteristics to plastered substrates.
- Breathable, allows the substrate to breath without de-lamination.
- Excellent resistance to extreme weather



Technical Data:

Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	Gray & White
Powder density	Approx. 1.15 kg/lit.
Application Thickness	From 250 microns to 4 mm
Pot life	Approx. 2 hours at 25° C
Packing	25 kg paper bag
Mix Proportion	Approx. 8.5 ± 0.25 liters of water / 25 kg bags.
Coverage	0.5 – 0.75 kg/m ² (smooth finish with hand applications). 2 – 2.5 kg/m ² (rough texture with spray application). (Coverage rate may vary depending on surface condition).

Surface Preparation

Cement based walls and ceilings are the recommended substrates that can be covered with Cro Putty 100. Plastered substrates should be left to cure for at least 3 days prior to application of Cro Putty 100. Any problem in the substrate which may lead to water penetration must be rectified. All substrates should be in a good and strong condition. All substrates should also be clean and free from any loose particles, dust, oil, grease or curing agents

Application procedures

The whole contents of the bag should be mixed together with water, in one container using a hand drill equipped with mixing blade or high shear stationary mixer. Ask for our range of site mixers.

Partial small amounts may be mixed manually, with a trowel, or other suitable hand mixing tools. Add 7 liters of fresh cool, clean water in one deep container. Then, add the contents of the 18 kg bag gradually and mix till the mixture is uniform and free of lumps. For best results, use as little water as possible. Keep mixing for 3 – 5 minutes, to insure proper mixing and good dispersion of



additives. If the surface is dry and in hot weather, prewet prior to the application of Cro Putty 100 without leaving excess water

Cro Putty 100 should be immediately applied on the surface to be applied, while the mortar is fresh and workable. In case of delay, do not add additional water.

Remix till the mortar is workable again.

Apply Cro Putty 100 to the prepared surface either by conventional hand applied technique, or using spraying machine followed by smoothing to desired surface texture. Ask for our line of mixers and spraying machines.

It is recommended to apply Cro Putty 100 at 2 layers minimum. Each layer should be left to dry completely for at least 2 hours prior to application of the following layer, pre-wet the first layer before applying the following layer.

Cro Putty 100 can be applied at thickness up to 4 mm per layer (max. 2 coats per day).

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Chem
Construction Chemical

Group 5: Waterproofing Products TDS

Cro Proof 507

Cro Proof 505



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Cro Proof 507 TDS

Cement base, polymer modified, two component, high quality, flexible waterproofing coating.

Description:

Cro Proof 507 is cement based, two component, Copolymer emulsion based on Styrene Acrylic acid ester ammonia free and SBR modified coating which is easily applied by brush, roller, trowel or spray

When dries, Cro Proof 507 forms flexible, high quality waterproof membrane for concrete, cementitious and masonry substrates.

Composition:

Cro Proof 507 is composed of specially selected high strength cements, selected well graded fillers, and additives in powder form together with liquid component of styrene acrylic polymer dispersion and wetting agents.

Standards:

Cro Proof 507 formulation Complies with EN12390/8 standards

Uses:

Cro Proof 507 is used as internal and external waterproofing membrane in the following structures:

- Walls and floors in wet areas such as bathrooms, kitchens, balconies and roofs.
- Water retaining structures such as swimming pools, potable water tanks and waste water tanks.
- Foundations, retaining walls and basements. Where carbonation and chloride protection are required to concrete structures.
- Sewage treatment facilities including concrete tanks, clarifiers etc...



Technical Data:

Color	Grey and White
Powder Density	1.9 ton/m ³
Toxicity	Non toxic
Positive pressure	2 Bar
VOC content	< 5 g/L
Flexural Strength	> 7 N/mm ² @ 28 days (ASTM C580)
Tensile adhesion strength	> 1.0 N/mm ² (EN 14891:2017)
Compressive Strength	> 18 N/mm ² @ 28 days (ASTM-C109)
Elongation	> 3 % (ASTM C307)
Negative Pressure	0.5 Bar
Bond Strength	> 0.5 N/mm ² @ 28 days (BS 1881 Part 207 1992)
Crack bridging ability	1.5 – 1.25 mm (EN 2017 / 1489)
Pot Life	Approx. 40 minutes at °23 C.
No of Coats	2 Coats Minimum
Time between coats	12 hours min at 25 Degrees
Packaging	Cro Proof 505 is available in 25 kg double pack (20kg powder + 5 kg liquid)
Mix Proportion	20Kg powder with 5 Kg liquid
Coverage Rate	1.25 – 1 Kg/m ² /coat (Two coats). Apply the second coat at right angles to the first coat. (Coverage may vary depending on surface conditions).



Advantages:

- Easy to use and apply. Only requires the mixing of the two components on site.
- Raw materials are selected according to the highest quality control standards.
- Flexible. Will accommodate hair cracks movement up to 1.5 mm .
- Excellent adhesion – bonds to porous and non- porous surfaces.
- Flexible.
- Nontoxic. Approved by National Research Center.
- Will not support bacterial growth.
- Suitable for light pedestrian traffic.
- Can be applied to damp surfaces and 24 hours old concrete substrates.
- Can protect the foundation from aggressive soil

Surface Preparation:

- Substrates to be waterproofed should be in good, strong and stable condition. Remove all grease, oil ,dust, residual curing compound, mold release agent or other contaminant that could impair adhesion .
- Laitance should preferably be removed by light sweep blasting or hydro jetting. Mechanical wire brushing may be appropriate for small areas .
- Surface cracks should be cut back and repaired using suitable cementitious repair mortar. Wall to floor intersections should be cut 20 X 20 mm along the junctions and filled with suitable cementitious repair mortar and round out to 40 mm minimum radius. The substrates to be waterproofed should be levelled and as flat as possible. It should be thoroughly wetted but free of standing water prior to the application of Cro Proof 507.

Application Procedures:

- Cro proof 507 is supplied in pre-measured units and should be mixed on site utilizing clean containers .
- Slowly add the powder to the liquid and mix, using a slow speed drill fitted with a suitable paddle .
- **Mix and Use** not mix more material than can be used within one hour.
- NOTE: part packs can be used by mixing ratio 4 by weight of powder to 1 by weight of liquid. Mix



- thoroughly, and keep mixed during application. DO NOT RE-TEMPER WITH WATER.
- Always apply Cro Proof 507 to pre-wetted substrates but free from standing water
- Saturate concrete surfaces with clean water whilst still visibly damp, but free of standing water; apply
- the first coat using short, stiff bristle brush or roller.
- Allow at least overnight to cure before applying the second coat.
- Dampen the first coat and remove excess water. Apply the second coat as above at right angle to the
- first coat.
- If cementitious plaster will be applied over Cro Proof 507, sand dash immediately to create mechanical
- key and aid adhesion.
- If the second coat is the final coat, finish it with brush, roller or sponge to get a uniform finish.
- Allow the second coat to dry. Damp cure for 24 hours.

Important Notes:

- Do not apply Cro Proof 507 on movement joints. Expansion joints should be included as per the surface
- design and carried out through Cro Proof 507.
- Never cure with water or any curing compounds.
- It is advisable that Cro Proof 507 should be protected against rapid drying and rains for 2 days.
- Cro Proof 507 can be subjected to mechanical stresses after 2 days and can be opened to water
- exposure after 2 days.
- Cro Proof 507 should be protected from damage due to the application of subsequent layers.
- Cro Proof 507 it is recommended to use Cro Fix Family for fixing tiles using thin bed method of installation.
- Cro Proof 507 whilst stopping water running, it remains breathable. Only vapor permeable finishes are recommended to be applied over Cro Proof 507.

**Storage:**

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety:

While using the product, gloves and goggles should be worn.

Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical

advice



Cro Proof 505 TDS

Cement base, polymer modified, two component, high quality, durable Waterproof slurry.

Description:

Cro Proof 505 is cement based, two component, acrylic polymer modified SLURRY which is easily applied by brush, roller, trowel or spray.

When dries, Cro Proof 505 forms durable, high quality waterproof membrane for concrete, cementitious, masonry substrates, isolated footing and foundations.

Composition:

Cro Proof 505 is composed of specially selected high strength cements, selected well graded fillers, and additives in powder form together with liquid component of styrene acrylic and wetting agents.

Standards:

Cro Proof 505 formulation Complies with EN 14891/2017 standards.

Uses:

Cro Proof 505 is used as internal and external waterproofing membrane in the following structures:

- Walls and floors in wet areas such as bathrooms, kitchens, balconies and roofs.
- Water retaining structures such as swimming pools and waste water tanks.
- Foundations, isolated footing, raft foundation, retaining walls and basements.
- Where anti carbonation protection is required to concrete structures.
- Sewage treatment facilities including concrete tanks, clarifiers etc...
- Against aggressive soil contain sulfate and chloride salts.

Technical Data:



Color	Grey and White
Powder Density	1.9 ton/m ³
Toxicity	Non toxic
Positive pressure	1.5 Bar
VOC content	< 5 g/L
No of Coats	2 Coats Minimum
Time between coats	12 hours min at 25 Degrees
Negative Pressure	0.5 Bar
Bond Strength	>2.0 N/mm ² @ 28 days (ASTM-C1042/85-C-321)
Crack bridging ability	1.00 mm (EN 1489 / 2017)
Pot Life	Approx. 40 minutes at °23 C.
Packaging	Cro Proof 505 is available in 25 kg double pack (20kg powder + 5 kg liquid)
Mix Proportion	20Kg powder with 5 Kg liquid
Coverage Rate	1.25 – 1 Kg/m ² /coat (Two coats). Apply the second coat at right angles to the first coat. (Coverage may vary depending on surface conditions).

Advantages:

- Easy to use and apply. Only requires the mixing of the two components on site .
- Raw materials are selected according to the highest quality control standards .
- Flexible. Will accommodate hair cracks movement up to 1.0 mm .
- Limited flexibility.
- Will not support bacterial growth.
- Suitable for light pedestrian traffic.
- Can be applied to damp surfaces and 24 Hours old concrete substrates.

Surface Preparation:

Substrates to be waterproofed should be in good, strong and stable condition. Remove all grease, oil ,dust, residual curing compound, mold release agent or



other contaminant that could impair adhesion. Laitance should preferably be removed by light sweep blasting or hydro jetting. Mechanical wire brushing may be appropriate for small areas.

Surface cracks should be cut back and repaired using suitable cementitious repair mortar. Wall to floor intersections should be cut 20 X 20 mm along the junctions and filled with suitable cementitious repair mortar and round out to 40 mm minimum radius. The substrates to be waterproofed should be levelled and as flat as possible. It should be thoroughly wetted but free of standing water prior to the application of Cro Proof 505.

Application Procedures:

- Cro Proof 505 is supplied in pre-measured units and should be mixed on site utilizing clean containers. Slowly add the powder to the liquid and mix, using a slow speed drill fitted with a suitable paddle. MIX AND USE. Do not mix more material than can be used within one hour.

- NOTE: part packs can be used by mixing ratio 4 by weight of powder to 1 by weight of liquid. Mix thoroughly, and keep mixed during application. DO NOT RE-TEMPER WITH WATER.

- Always apply Cro Proof 505 to pre-wetted substrates but free from standing water

- Saturate concrete surfaces with clean water whilst still visibly damp, but free of standing water; apply the first coat using short, stiff bristle brush or roller.

- Allow the first coat to Cro before applying the second coat.

- Dampen the first coat and remove excess water. Apply the second coat as above at right angle to the first coat.

- If cementitious plaster will be applied over Cro Proof 505 and dash immediately to create mechanical key and aid adhesion.

- If the second coat is the final coat, finish it with brush, roller or sponge to get a uniform finish.

- Allow the second coat to Cro. Damp cure for 24 hours.

Important Notes:

- Do not apply Cro Proof 505 on movement joints. Expansion joints should be included as per the substrate design and carried out through Cro Proof 505.

- Never cure with water or any curing compounds.

- It is advisable that Cro Proof 505 Star should be protected against rapid drying and rains for 2 days.

- Cro Proof 505 can be subjected to mechanical stresses after 2 days and can be opened to water exposure after 2 days.



- Cro Proof 505 should be protected from damage due to the application of subsequent layers.

- Cro Proof 505 whilst stopping water running, it remains breathable. Only vapor permeable finishes are recommended to be applied over Cro Proof 505 .

Storage:

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety:

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed

with clean water, in case of prolonged irritation, seek medical advice.



Cro Chem
Construction Chemical

Group #7: Bonding Agents TDS

Cro Bond 5001:

Cro Bond 65:

Cro Poly Fix:

Cro THERMO-BOND:



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Cro Bond 5001 TDS

Multi-purpose PVA bonding agent and admixture for cement-based mortars.

Description:

CroBond 5001 is multi-purpose admixture specially formulated to be used with cement-based mortars to improve adhesion to most construction materials such as concrete, bricks and blocks.

Composition:

CroBond 5001 is manufactured from Poly Vinyl Acetate (PVA) polymer

Uses:

CroBond 5001 can be used as an admixture for the following applications:

- Cement based spatter dash mortars
- Floor screeds.
- Bonding new screeds, plaster and rendering mortars.

Advantages:

- Improve abrasion resistance.
- Excellent adhesion cement-based substrates.
- Reduce shrinkage. Surface Preparation:
- Surfaces should be clean and free from any loose particles, dust, oil, grease, curing agents, or paint.
- Remove all recess and loose materials using suitable tools.
- For floor screed, use the mechanical surface preparation technique. Pre-wet the prepared the surface prior to application, without leaving excess water.

Technical Data:

Color	White
Diluents/ Thinner	Water
PH	4-6



Specific Gravity	Approx. 1.0
Packing	available in 1 , 5 and 20 and 125 liter
Mix Proportion	mixing according to use
Coverage	• 5-7 m²/liter (bonding slurry application). • 50-100 liter/m³ (floor screed application). (Coverage rate may vary depending on surface condition).

Application Procedures:

Spatter Dash:

- Mix 400 - 450 kg of Portland cement to 1 m³ of sharp sand.
- Add CroBond 5001 diluted with water at a ratio of 1:1 to 1:4 to the ready mixed mortar and mix well to get slurry consistency.
- Apply the spatter dash mortar to the prepared surface either using manual spraying machine or by conventional hand application.

Bonding Slurry:

- Mix approximately 1 part of Cro Bond 5001 with 1 part of water and a 2-3 parts of cement to a lump free slurry consistency.
- Apply the mix to the prepared surface using a stiff brush without leaving any pinholes on the substrate.
- The following mortar layer must be applied while the slurry coat is still wet.

Floor Screeds:

- Cro Bond 5001 when used in floor screeds will help to get thin floor screeds 10 – 20 mm thickness. A bonding slurry coat should be applied as above.
- The recommended mix to be used as floor screed is 50 kg of Portland cement with 150 kg of sharp sand and 5 - 10 liters of Cro Bond 5001. Keep the quantity of water to be added to the minimum to get a semi dry consistency.
- Spread the mixture on the prepared surface while the bonding slurry coat is still tacky and press on it well.
- Trowel the surface to a smooth finish using steel trowel.



- Cover the surface with polyethylene sheet to cure and allow to dry for 7 days before opening for traffic.

Storage:

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety:

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice



CRO BOND 65 TDS

Powerful Multi-Use Adhesive for Mortar and Concrete.

Multipurpose, water resistant Acrylic & SBR bonding agent and admixture for cementitious systems. Cro Bond 65 is Styrene butadiene copolymer (SBR) latex & Acrylic Pure Polymer.

Characteristics

Cro Bond 65 is a versatile adhesive with a wide range of applications. It is latex dispersion admixture based on styrene butadiene rubber and is used for improving the properties of cement mortar and concrete, specifically with regards to bond strength to different building materials, and impermeability to water.

Uses

Cro Bond 65 can be used as an admixture for the following applications:

- Cement based tile adhesive & tile grouts mortars.
- Cement based renders and spatter dash mortars (Taratasha).
- Waterproof plaster for swimming pools, water and waste water tanks.
- Bonding new concrete to old & concrete repair mortars.
- Corrosion protection of steel reinforcement in concrete structures.
- As an admixture for producing **Cro Bond 65** slurry, which is used for bonding fresh to old concrete, cement plastering on smooth concrete surfaces, and cement screed topping on concrete flooring.
- As an admixture for producing **Cro Bond 65** mortar, which is used for the repairing of concrete structures, hard wearing screed toppings high quality plastering and adhering of ceramic Tiles to floors and walls.
- Diluted **Cro Bond 65** can be used as dustproof and surface hardener for concrete and cement plastering surfaces.

Advantages

- Excellent resistance to water penetration.
- Increases the bond strength of concrete and mortar to different building materials.
- Improve abrasion resistance.
- Excellent adhesion to steel reinforcement and cementitious substrates.
- Reduce shrinkage and improve flexibility and durability.
- Improve compressive, flexural and tensile strength.



- Non-toxic can be used in contact with potable water.
- Improves the impermeability of cement mortar and increases resistance to chemicals and salts when added in high dosage to get a water proofing mortar.
- Improves the workability and decreases the mixing water.

Technical Data

Color	White
Solid content	48% $\pm$ 5% Approx.
Density	1.01 $\pm$ 0.01 kg/L
Diluents/ Thinner	Water
pH value	Approx. 7.5 $\pm$.8
Specific Gravity	Approx. 1.0
Minimum film Formation temp	4°C
packing	is available in 1, 5, 20.

Cro Bond 65 to water ratio is 1:1,1:2,1:3,1:4,1:5.

- Test results after 28 days.

Properties	control	1:4	1:3	1:2	1:1
Compressive strength (Kg/cm²)	168	199	238	292	301
Tensile strength (Kg/cm²)	12	15	18	23	28
Bending strength (Kg/cm²)	28	39	46	55	59
Abrasion resistance % loss	4.2	3.4	3,1	1,9	1,5
% water absorption	9.65	8.75	6.52	3,56	2,22
Chemical resistance 5% H₂so₄	8	5	4,7	3,95	2,5
% at change 7 day kerosene	4.8	3,7	2,6	1,6	1,4

Surface Preparation

Substrates where **Cro Bond 65** to be applied should be clean and free from any loose particles, dust, oil, grease, curing agents, or paint. Remove all laitance and loose materials using suitable tools. Reinforcing steel must be free from grease, oil and rust. Pre-wet cement-based substrates prior to application, without leaving excess water.



Application Procedures

Tile adhesives

Cro Bond 65 can be used with Cro Fix range of products for some specific applications. In this case the recommended dosage is 1.5 liter/25 kg bag. The total amount of water that should be added to each bag should be reduced to compensate the addition of **Cro Bond 65**. Also, **Cro Bond 65** can be used with cement based traditional mortar for fixing ceramic tiles. In this case, use **Cro Bond 65 diluted with water at 1:1 to 1:4 ratio**

Tiles Grout

Cro Bond 65 can be used with Cro Grout and jobsite mix cement based tiles grout to produce waterproof tiles grouts for floors and walls. In this case use **Cro Bond 65** diluted with water at 1:4 mixing ratio.

Bonding Agent

Mix Approximately one part of **Cro Bond 65** + one part of water + 2-3 parts of cement to a lump free slurry consistency. Apply the mix to the prepared substrate using stiff brush without leaving any pinholes on the substrate. The following mortar layer must be applied while the slurry coat is still wet. (Coverage is approximately 5 - 7 m²/liter of **Cro Bond 65** depending on surface condition).

Polymer Modified Mortars

Mix **Cro Bond 65** with water at mixing ratio 1:1 – 1:4. Mix the dry component of the cement based mortar using well graded sharp sand and the required quantity of OPC. Add the powder mix to the diluted mixture of **Cro Bond 65** slowly while mixing. Keep mixing for three minutes and keep the mortar as stiff as possible. Apply the mortar by trowel or other suitable application tools in layers not more than 6 mm thickness per layer. If the thickness is more than 6 mm, apply several coats wet on wet till you reach the required thickness.

Curing

Moisture curing is recommended for 24 hours then allow to dry slowly.

Storage

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety precautions:

- Wear gloves and goggles.
 - Skin and face contamination should be washed with water and soap.
- Accidental splashes to eyes must be rinsed with clean water and then report to an specialist.
- Do not eat and smoke during use.



Cro Poly Fix TDS

High quality, cementitious universal thin set flexible adhesive mortar.

Description:

Cro Poly Fix is cement based, high quality, highly polymer modified, ready mixed, flexible, thin set universal adhesive mortar in a powder form. Cro Poly Fix requires the addition of water on site.

Composition:

Cro Poly Fix is manufactured with a carefully selected raw materials which include a blend of special high strength hydraulic binders, well graded fillers, and special additives to enhance workability, flexibility and bonding characteristics.

Uses:

Cro Poly Fix ideal for fixing polyurethane decorative molding products such as cornices, ceiling centers, door frames, ...etc to different construction materials such as concrete, cementitious plaster walls and ceilings, brick & block walls and glass blocks ...etc

Advantages:

- Easy to use and apply. Only requires to just add water on site.
- Raw materials are selected according to the highest quality control standards.
- Excellent mixing and workability characteristics.
- Excellent bonding characteristics to different construction materials.
- Excellent water resistance.
- Breathable.
- High flexibility. Excellent resistant to substrate vibrations.
- Temperature resistance from - 5°C to + 70°C . Long open time and pot life

Technical Data:

Base	Portland cement, graded clean silica sand, and selected additives.
Available Colors	White



Powder density	Approx. 1.20 kg/lit.
Application Thickness	From 3 mm up to 12 mm
Pot life	Approx. 120 minutes at °25 C.
Open Time	Approx. 30 minutes at °25 C
Packing	available in 5 Kg Bags
Mix Proportion	Approx. 1.85 ± 0.1 liters of water / 5 kg bag.
Coverage	10 LM/kg (for fixing Polyurethane molds) (Coverage rate may vary depending on surface condition, the type of trowel used and setting practices).

Surface Preparation:

- Surfaces should be clean and free from any loose particles, dust, oil, grease, curing agents, or paint.
- Remove all recess and loose materials using suitable tools.

Application Procedures:

- Add the required quantity of fresh cool, clean water in one deep container. Then, add the contents of the bag gradually while mixing till the mixture is uniform and free of lumps.
- Leave the mixed material for 10 minutes and re-mix for one minute.
- Cro Poly Fix should be applied by a putty knife, to the top and bottom edge of the back side of the mold, spread the adhesive over surface.

Storage:

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety:

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro THERMO-BOND TDS

High quality, cementitious thin set flexible adhesive mortar for fixing expanded polystyrene thermal insulation boards

Description:

Cro THERMO-BOND is cement based, high quality, highly polymer modified, ready mixed, flexible, thin set adhesive mortar in a powder form. Cro THERMO-BOND requires to add water on site.

Composition:

Cro THERMO-BOND is manufactured with a selected raw materials which include a blend of special high strength hydraulic binders, well graded fillers, and special additives to enhance workability, flexibility and bonding characteristics.

Uses:

Cro THERMO-BOND is part of CroChem External Insulation and Finish System (**EIFS**). It is ideal for fixing expanded polystyrene thermal insulation boards to different construction materials such as concrete, cementitious plaster walls and ceilings, brick & block walls ...etc.

Cro THERMO-BOND is also recommended for fixing polypropylene mesh over expanded polystyrene thermal insulation boards using embedding technique.

Advantages:

- Easy to use and apply. Only requires to just add water on site.
- Raw materials are selected according to the highest quality control standards.
- Excellent mixing and workability characteristics.
- Excellent bonding characteristics to different construction materials.
- High flexibility. Excellent resistant to surface vibrations.
- Temperature resistance from $-^{\circ}30C$ to $^{\circ}70+C$.
- Long open time and pot life.

Technical Data:

Base	Portland cement, graded clean silica sand, and selected additives.
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Available Colors	White
Powder density	Approx. 1.45 kg/lit.
Application Thickness	From 2 mm up to 5 mm.
Pot life	Approx. 120 minutes at °25 C.
Open Time	Approx. 30 minutes at °25 C
Packing	available in 5 Kg Bags
Adhesion to concrete	> 0.5 N/mm ²
Mix Proportion	Approx. 13 ± 0.25 liters of water/ 40 kg bag
Coverage	4-5 kg/m ² (Coverage rate may vary depending on surface condition, the type of trowel used and setting practices).

Surface Preparation:

- Cement based walls should be left to cure for at least 14 days prior to applying Cro THERMO-BOND .
- Rough or uneven concrete surfaces should be made smooth to provide a wood float finish.
- All surfaces should be in a good and strong condition.
- All surfaces should be clean and free from any loose particles, dust, oil, grease, curing agents, or paint.
- Thermal insulation boards that will be fixed should be clean and free from any surface contamination.
- If the surface is dry and in hot weather, pre-wet surface prior to applying Cro THERMO-BOND without leaving excess water

Application Procedures:

1. Fixing the insulation board to the wall:

- Add 13 liters of fresh cool, clean water in one deep container. Then, add the contents of the 40 kg bag gradually while mixing till the mixture is uniformed and free of lumps. Leave the mixed material for 10 minutes and re-mix for one



minute. • Cro THERMO-BOND should be applied by a putty knife, along the edges of the boards, and distributed in 6-8 patches over the board surface.

• Put the board against the wall and press firmly in the required position by hitting the board, at least 60% of the insulation board surface is evenly fixed.

2. Fixation of the reinforcing fabric:

• Add 13 liters of fresh cool, clean water in one deep container. Then, add the contents of the 40 kg bag gradually while mixing till the mixture is uniformed and free of lumps. Leave the mixed material for 10 minutes and re-mix for one minute.

• Cro THERMO-BOND should be applied by a notched trowel 10 – 12 mm over the whole surface of the thermal insulation board.

• While the Cro THERMO-BOND is still wet, place the polypropylene reinforcing mesh in the form of vertical belts and press in place till it is embedded in the Cro THERMO-BOND .

• Apply a finishing coat of Cro THERMO-BOND using a steel trowel to a smooth finish.

• Leave Cro THERMO-BOND to dry for 2 – 3 days.

• Then you can apply the final decorative finishing system (eg. Cro Finish family of products)

Storage:

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety:

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice. June 2022 DISCLAIME



Cro Chem
Construction Chemical

Group #8: Surface Sealers TDS

Cro Seal



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Cro Seal TDS

High quality acrylic copolymer emulsion sealer for porous substrates

Description:

Cro Seal sealer is a high quality aqueous (watery) dispersion sealer manufactured from a selected emulsion polymer.

Cro Seal used for sealing porous surfaces prior to applying Cro Chem finishing systems such as Cro Finish and Cro Putty.

Cro Seal is water and weather resistant, specially formulated to provide good impregnation for the surfaces and improve strength of any weak area

Composition:

Cro Seal consists of a high-performance acrylic copolymer emulsion with fine particle. size to enhance penetration of cementitious surfaces.

Uses:

Cro Seal can be applied manually by roller/ brush or using spraying machine to increase productivity.

It is ideal sealer for dry and wet substrates, indoors or outdoors

Advantages:

- Reduces surface salt and efflorescence. • Reduce surface absorption.
- Resistant to rain, yet permeable to water vapors. • For indoor and outdoor use
- Excellent bonding and impregnation characteristics to different porous surfaces such as cementitious plaster, cementitious putty, gypsum board, masonry brick, concrete blocks, concrete ...etc.
- strengthens weak surfaces prior to applying CroChem finishing systems

Surface Preparation:

- Cement based walls and screeds should be left to cure for at least 14 days prior to application of Al Almany.
- All substrates should be clean and free from any loose dust, oil, grease, form-work oil, curing agents, or paint Application



Procedures:

- Apply Cro Seal using a brush or roller or by spraying on the surface to be sealed, do not dilute.
- Leave the first coat to dry for a minimum of 2-3 hours prior to applying the second coat.
- Leave the second coat to dry for a minimum of 6 hours prior to applying of CroChem finishing systems

Color	Milky white
Dilution	15%-30% using fresh water
Density	1.36 kg/liter
Initial Drying time	30 – 60 minutes
pH	8 ± 0.5
Recoating time	2 – 3 hours
Final dry	6 hours
Mix Proportion	Liquid ready to use
Coverage Rate	10-12 m ² /liter (one coat)
packing	available in 14 Kg

Storage:

Shelf life is 12 months from manufacturing date, in a dry, Covered storage area.

Health and Safety:

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Chem

Construction Chemical

Group 9: Flooring TDS

Cro Floor CH 903

Cro Floor RA 903



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Cro Floor CH 903 TDS

Dry Shake, High quality, ready mixed, concrete floors surface color hardener

Description:

Cro Floor CH 903 is high quality, ready mixed, concrete floor surface color hardener in powder form.

Cro Floor CH 903 is specially formulated for application by the dry shake technique over the freshly poured concrete floor to produce hard wearing and abrasion resistant surface.

Cro Floor CH 903 is ideal floor hardener for stamped concrete applications. It can also be troweled into the freshly placed concrete floor surface to produce smooth finish.

Cro Floor CH 903 is ideal for use where high traffic is present in private and public areas.

Cro Floor CH 903 is available in a wide range of bright and intense shades of colors.

Composition:

Cro Floor CH 903 is manufactured from carefully selected raw materials which include a blend of special high strength hydraulic binders, selected well graded fillers, and special additives to enhance color stability against U.V and the mechanical properties of the concrete floors.

Standards: formulated to comply with ASTM C926- standard.

Uses:

Cro Floor CH 903 is used as concrete floor hardener in the following applications:

- Stamped concrete floors.
- Garages and parking areas.
- Warehouses.



- Factories and mechanical workshops where clean, dust free floors are required.
- Walkways.

Advantages:

- Easy to use and apply. Only requires the spreading by hand on green, fresh concrete.
- Raw materials are selected according to the highest quality control standards.
- Exact mixing ratios and homogeneous blend, due to factory fully computerized production process.
- Improve abrasion resistant.
- Improve compressive strength.
- Available in wide range of uniform colors

Technical:

Base	Portland cement, graded clean silica sand, and selected additives.
Colors	Gray
Dry Density	1.6 kg/liter
Initial Drying time	30 – 60 minutes
Compressive Strength	> 40 N/mm ²
Mix Proportion	Dry Shake over fresh concrete
Coverage Rate	3-5 kg/m ² (Coverage rate may vary depending on surface condition).
Packing	available in 20:25 Kg

Application Procedures:

Concrete Floor:

- The base concrete should be poured and compacted in accordance with good concrete practice.



- The concrete floor should contain 300 kg/m³ minimum cement content and should have w:c ratio of 0.55 maximum.
- The compressive strength after 28 days should be 30 N/mm² minimum and the concrete floor thickness should be 10 cm minimum.
- Pour the concrete floor slab to the finish level ensuring that there is no bleeding or segregation.
- Level the concrete floor using straight edge bar and compact it well with vibrator.
- Smooth the surface with wooden trowel.
- Leave the finished surface for approximately one hour till it starts to dry. The application of Cro Floor CH 903 should be stated after excess moisture has disappeared from the surface and while the concrete is still plastic.
- The application of Cro Floor CH 903 too early will lead to poor results.
- Apply Cro Floor CH 903 along the edges of each concrete floor panel at the rate of 1 kg in each meter
- and float it using wooden trowel.
- Apply two third of the required quantity of Cro Floor CH 903 to the concrete floor ensuring uniform
- distribution.
- Leave the Cro Floor CH 903 to absorb moisture from the concrete floor, then finish it using wooden
- trowel into the concrete floor surface.
- Apply one third of the required quantity of Cro Floor CH 903 to the concrete floor and finish it with
- wooden trowel into the concrete floor surface.
- When the concrete floor surface has gained strength to walk on with leaving minor indentations, finish the surface with power float or steel trowel. Do not sprinkle water while power floating.
- If stamped concrete application is required, spread Cro Floor RA 903 (release powder) on the polished surface, then commence stamping applications using suitable molds.
- Protect the concrete floor surface from air drafts to prevent surface drying, and cure with water for three days.
- Saw cut the concrete floors as soon as possible.



- Leave the concrete floor for 14 days. Then apply two coat of Cro Seal 801 to give the concrete floor semi glossy appearance.

Storage: Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety: While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice.



Cro Floor RA 903 TDS

Cro Floor RA 903 is a release agent in powder form for use as a part of Cochem Stamped Concrete in the stamped concrete floors applications to allow the clean release of texturing mold from the fresh concrete surface.

Cro Floor RA 903 can be used with the same color of the color concrete floor hardener or can add

color variation to the textured concrete floor surfaces, providing an attractive two-color look that is part of most pattern stamped concrete installations.

Composition:

Cro Floor RA 903 is manufactured from carefully selected raw materials which include a blend of special chemicals, special additives to prevent adhesion between the texturing mold and the concrete floor surface and selective pigments.

Advantages:

- Excellent release for texturing tools.
- Color variation for textured concrete surfaces.
- Available in different colors.

Base	Portland cement, graded clean silica sand, and selected additives.
Mix Proportion	Dry Shake (Not mixed)
Coverage Rate	0.25 0.5 – kg/m ² (Coverage rate may vary depending on surface condition).
Packing	available in 20 Kg

Application Procedures:

- Spread Cro Floor RA 903 over the surface of the freshly casted concrete floor after the Cro Floor CH 903 has applied.
- Immediately put the texturing mold on the concrete surface and push hard to create the required
- texture on the concrete surface.



- Remove the texturing mold ensuring that the required texture is achieved.
- Leave the concrete floor for 24 hours. Then wash it with water to remove the excess CroFloor RA 903.

Storage:

Shelf life is 12 months from manufacturing date, in a dry, covered storage area.

Health and Safety:

While using the product, gloves and goggles should be worn. Splashes to skin or eyes should be washed with clean water, in case of prolonged irritation, seek medical advice

