



CRUPE
SIMPLY BETTER BUILDING

03.

**CRUPE
FINISH**

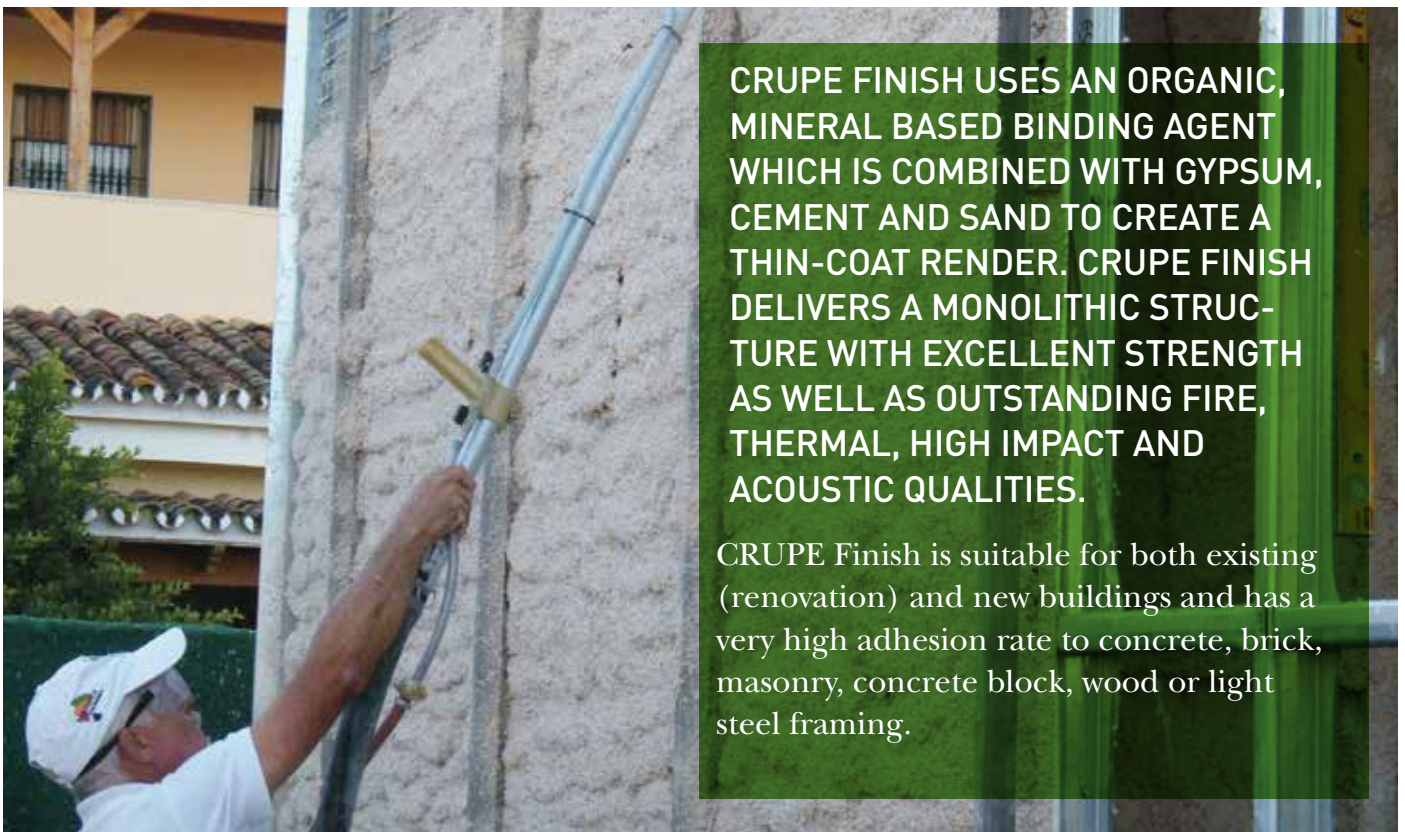


03.

CRUPE FINISH



A revolutionary new building system combining an organic, mineral-based binding agent with a mortar based solution that produces a building product with a high impact surface that can be rendered in a range of finishes from smooth coat to textured.



CRUPE FINISH USES AN ORGANIC, MINERAL BASED BINDING AGENT WHICH IS COMBINED WITH GYPSUM, CEMENT AND SAND TO CREATE A THIN-COAT RENDER. CRUPE FINISH DELIVERS A MONOLITHIC STRUCTURE WITH EXCELLENT STRENGTH AS WELL AS OUTSTANDING FIRE, THERMAL, HIGH IMPACT AND ACOUSTIC QUALITIES.

CRUPE Finish is suitable for both existing (renovation) and new buildings and has a very high adhesion rate to concrete, brick, masonry, concrete block, wood or light steel framing.

CRUPE Finish can be used in a variety of ways, as a stand-alone product applied to materials such as EPS panels or Perlite reinforced with a nylon mesh or combined with our CRUPE Protect for a very robust, crack resistant render for a complete through the wall solution.



'A LAYER OF 6 - 10MM CAN BE APPLIED IN JUST ONE OPERATION BECAUSE CRUPE FINISH IMMEDIATELY STARTS BINDING TO THE SURFACE ALLOWING FOR A SINGLE, HIGH-BUILD, CONTINUOUS APPLICATION'

CRUPE Finish has a polypropylene fibre blended into the dry mix that gives it the ability to resist cracking, making for a very stable final finish coat.

Because CRUPE Finish is made with an organic, mineral based solution the resulting building material is generally more environmentally and user friendly than traditional cement or gypsum based systems.



KEY BENEFITS

- > Creates a Monolithic surface
- > Certified and Rated around the world
- > Reduces Building Cost and Time
- > A Flexible Render
- > High Impact surface
- > Fire Resistant Qualities –
A1 tested to over 2 hours
- > Ideal for use in areas with higher risk
of earthquake, hurricane and humidity

'CRUPE Finish rivals and exceeds other thin coat render systems. CRUPE Finish is typically layered to a 10mm thickness resulting in a very resilient and crack resistant coat with greater impact resistance.'

Please contact us at:
CRUPE International Limited
Hauptstrasse 66, P.O. Box 186
8832 Wollerau, Switzerland
t: +41 44 786 0888 f: +41 44 786 0889
e: info@crupe.com
w: www.crupe.com



CRUPE
SIMPLY BETTER BUILDING

PRODUCT SPECIFICATION & CHARACTERISTICS

03. CRUPE FINISH

CRUPE Finish is a building material that is applied as the finishing coat onto a new or existing building in a single operation that provides a monolithic surface. CRUPE Finish is a render with excellent fire rating and high impact properties and also offers effective acoustic and thermal properties when combined with CRUPE Insultherm.

CRUPE Finish can be applied by hand or by using a render spray machine. The product can be applied to all types of surfaces, brick, fibre board, concrete, OSB board, etc. For best results for fire, thermal and acoustic performance CRUPE Finish is best applied in combination with CRUPE Protect Insultherm 500/600.

APPLICATION AREA

- > Finishing render coat to external walls
- > Applied as final render coat for internal walls and ceilings

PRODUCT PROPERTIES

An aqueous gypsum plaster base and cement composition mixed with water and CRUPE's patented additive is sprayed as pumpable, relatively fluid composition or manually applied by hand trowel. The mixture has sufficient viscosity that it does not slump on contact permitting a vertical or overhead layer up to 15mm.

CRUPE Finish is supplied in both 20kg and 25kg bags depending on the region. The product is made up of a unique blend of calcined gypsum, hydraulic cement and sand which is combined with our patented CRUPE additive in the correct weight ratio. The chemical reaction occurs when the composition is mixed with water.

Hardening of the mixture takes about 60 minutes. After hardening, CRUPE Finish is of a mechanical strength to provide a high impact render for either external or internal final coat.

CRUPE Finish will set and gain hardness in a different manner to all conventional cement renders. Newly applied render must not be allowed to dry out too quickly and must be allowed to fully dehydrate prior to placing paint on the surface - this can take between. Therefore; in extremely hot weather conditions it may be necessary to protect the newly applied render from the sun and drying winds so that it does not dehydrate too rapidly. Spraying a mist of water over the material to assist the curing process is recommended in such conditions.

Paint: It is advised that acrylic paints not be used as they do not allow the wall to breath. Therefore; CRUPE recommend breathable paints which can be easily found at any quality paint provider or specialised paint manufacture. In some cases, you may wish to increase the speed of completion by adding colouring agent into the mix thus eliminating the need to paint the walls and creating an alabaster look for your wall.

PERFORMANCE AND KEY BENEFITS

CRUPE Finish is a highly effective render material offering:

- > Easily pumpable (2.2 m³ per hour)
- > Easy to work with reduced drying time
- > Mean average weight at 1750kg/m³
- > High compressive strength at 28 days up to 13 N/mm²
- > Fire rated

The CRUPE Finish render is a high impact medium weight building material comprising of gypsum, cement, sand with stranded polymer fibres resulting in a volume to weight ratio of 1750kg/M³.

With the polymer fibres blended into the Dry Mix for reinforcement, CRUPE Finish has a high resistance to surface cracking, is very stable upon curing and exhibits imperceptible shrinkage when applied under controlled conditions.

PRODUCT SPECIFICATION & CHARACTERISTICS

03. CRUPE FINISH

PRODUCT CHARACTERISTICS – SPANISH TEST RESULTS



CRUPE FINISH

Criteria	European/ISO Standards	Value	Unit
Density		1750	kg/m ³
μ-water Vapour Permeability	UNE-EN 1015-19:1999	4.352	MN.s/g
Compressive Strength 7 days	UNE-EN 13279-2	9.4	MPa
Compressive Strength 28 days	UNE-EN 13279-2	13.1	MPa
Bending Strength 7 days		3.2	N/mm ²
Bending Strength 28 days		3.5	N/mm ²
Fire Rating		3+	hours
Water Absorption	UNE-EN ISO 140-18:2003	0.3	kg/m ² min ^{0.5}
Dangerous Substances	No special protective measures or markings are necessary		



GENERAL PRODUCT INFORMATION

Please make this information available wherever CRUPE is used. Our products are amongst the safest in the building industry, however general guidelines should always be applied.

For a full range of CRUPE products and additional documentation visit: www.crupe.com

HANDLING & STORAGE

No special protective measures or hazardous goods protection are necessary when transporting CRUPE products. CRUPE products are generally stored in 25kg bags and need to be protected like any other cement based material – free from moisture and humidity. Store all CRUPE products off the ground in a protected, dry location.

CRUPE products do not require any special handling equipment as they are a mineral based material without any known side effects. For safe keeping CRUPE material should not be stored below 5 degrees or in temperatures in excess of 35 degrees.

- > **Avoid storing in direct sunlight.**
- > **The shelf life of CRUPE products if properly stored and sealed is 6 months.**

HEALTH & SAFETY

When mixed, CRUPE products pose very low health risks to the operators and users of the products. However, prolonged contact may cause irritation and dermatitis. Care should be exercised when handling any dry mix as inhaled dust may result in respiratory irritation. It is recommended that when opening bags and at the mixing stage a respiratory face mask is used.

PRECAUTIONS

Although contact with any CRUPE products is non-hazardous, caution still needs to be observed and site regulations followed during their use. As on any construction site, it is recommended that personnel should wear protective clothing, hand, head and eye protection in order to prevent accidental injury during loading of the mixer/pump, mixing preparation, spray application and any general use.

SITE CONDITIONS

Do not apply when the air temperature is below 2 degrees or over 35 degrees. CRUPE must never be applied in freezing conditions where the substrate has likely been frozen.

Avoid spraying in very dry conditions as this can affect the reaction time and cause potential surface cracking. Always take into account the solar gain from direct sunlight and plan to avoid, where possible, spraying CRUPE products onto surfaces that are heated. If unavoidable, spraying clean water onto the surface immediately before applying CRUPE products is recommended. When the substrate surfaces are sustaining direct sunlight, follow the recommendations on the surface preparation.

- > **Avoid spraying in direct sunlight.**

SITE PREPARATION

Surfaces such as brick or concrete may need to be prepared by scrubbling or removing old, loose render. There isn't a need to apply an expensive bonding product for better results.

You should always check that the surface is not hot due to direct sunlight as this may dehydrate the material too rapidly. If hot and dry, apply water.

When spraying onto existing surfaces, the surface must be free of all bond-inhibiting materials, including dirt, grease, formwork release oils and any other foreign matter. Any loose or damaged material must be totally removed and or repaired.

When spraying onto a light steel frame with mesh attached as per instructions make sure all mesh is thoroughly attached, check that all mesh goes to a width of 10mm of an intersection or door/window jamb. If you are spraying close to objects that need protecting from over spray, this is the time to do so.



CRUPE International Limited
Hauptstrasse 66
8832 Wollerau
Switzerland
T: +41 44 786 0888
F: +41 44 786 0889
E: info@crupe.com