



NEW GENERATION OF MATERIAL & BUILDING SOLUTION

PRODUCT DATA SHEET

INSULTERM 500 /600

THERMAL-ACOUSTIC MORTAR

General Technical Approval

UNE-EN 13279-1:2009



APPLICATION AREA

FOR **EXISTING AND NEW BUILDINGS**

WALL STRUCTURES: **CONCRETE, SAND-LIME, BRICK, POROUS
CONCRETE, FAIR-FACED MASONRY ETC.**

AS **EXTERNAL THERMAL INSULATION COMPOSITE SYSTEM (ETICS)**
FOR **CRUPESTEEL HOUSING SYSTEM**

PRODUCT PROPERTIES

HIGHLY EFFECTIVE THERMAL, ACOUSTIC & FIRE INSULATION
INCOMBUSTIBLE & NO SMOKE EMISSION
WEATHER-PROOF, PERMEABLE TO WATER VAPOR,
HEAT-INSULATING, FIRE – AND SOUND-PROOF

APPLICATION

For Exterior and interior use (In the case of inside application, a dew water calculation is recommendable).

Continuously apply in one general direction. If full width of wall cannot be covered at one time, terminate applications at corners.

INSULTERM 500 / 600.

Multi- layer application posible

MATERIAL HANDLING

Very good processing properties, machine and mechanical

High layer thicknesses in one go

Processing consistency dependents on the weather.

Water consumption approx. 7 - 8 ltr. / 30 ltr. INSULTERM Bag.

WORKABILITY TIME

Use mixed INSULTERM within 45 minutes.

Do not mix set or sprayed material again.

CONSUMPTION

Each cm thickness

INSULTERM 500 - approx. 4,4 kg/m²

INSULTERM 600 - approx. 5,4 kg/m²

Consider Additional consumption for rabbets, holes, wall bags, etc. - In particular for thinner layer thicknesses!

In the case of machine processing the productivity is possibly in a temporary way a little smaller through slight compression of the pearls EPS.

CONDITIONS OF USE

INSULTERM is sprayed and can be used manually as well (sprayed i.e. with Putzmeister SP11 or similar).

Smaller amounts can be mixed with a hand mixer

Mixing time: Do not exceed 4 - 5 minutes Mix

always the entire bag contents.

The least INSULTERM thickness is 2 cm, max thickness 20 cm.

Recommended thickness for each layer is max. 8 cm

It is recommended to establish the max. INSULTERM thickness of 20 cm in 3 shifts into set state.

Leveling INSULTERM with the Feather edge.

Avoid intense processing of the fresh INSULTERM surface.

After the INSULTERM drying time, CRUPE MYCA 63 or CRUPE BICAPA (Scratch work) exterior plaster can be applied.

STORAGE AND HANDLING

Protect from freezing 32° F (0° C) and temperatures in excess of 90° F (32° C). Store away from direct sunlight.

Protect portland cement based materials (bag products) from moisture and humidity. Store under cover, off the ground in a dry location.

SHELF LIFE

6 months, if properly stored and sealed.

EXAMINATION

Inspect Concrete and masonry surfaces for:

- Contamination - algae, chalkiness, dirt, dust, efflorescence, form oil, fungus, grease, laitance, mildew or other foreign substances.
- Surface absorption and chalkiness.
- Cracks - measure crack width and record location of cracks. -

Damage and deterioration.

- Moisture damage - record any areas of moisture damage.

Surfaces must be free of all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed and repaired.

Report deviations from the requirements of project specifications or other conditions that might adversely affect the INSULTERM application, to the General Contractor.

SITE CONDITIONS

Hot or very dry conditions accelerate drying and moisture loss from INSULTERM which can affect resistance to cracking. Adjustments in the application, scheduling and curing of INSULTERM to prevent rapid loss of moisture are necessary to achieve a satisfactory INSULTERM application result. Cold temperatures retard drying and adjustments may have to be made in the application, scheduling to prevent application damage from frost and other trades. Do not install or protect INSULTERM during extremely hot, dust, dirt, rain, freezing, dry and/or continuous windy conditions. Do not install INSULTERM during freezing conditions or on frozen substrates. Allow final INSULTERM application to completely dry before applying finish. Moisture from concrete may delay the application until 28 days after the concrete is placed.)

After satisfactory inspection of surfaces and correction of any deviations from specification requirements commence the INSULTERM application.

CHARACTERISTICS

CRITERIA	EUROPEAN / ISO STANDARD	VALUE	UNIT
<i>Density</i> INSULTERM 500 INSULTERM 600		500 600	kg / m ³
<i>μ - Water vapor permeability</i> INSULTERM 500 INSULTERM 600	UNE-EN 1015-19:1999	49,23 11,84	
<i>Compressive strength</i> <i>28 Days</i> INSULTERM 500 INSULTERM 600	UNE-EN 13279-2	2,2 2,4	N/mm ²
<i>Reaction to fire</i>	UNE-EN 1364-1:2000	A1	
<i>Water absorption</i> INSULTERM 500 INSULTERM 600	UNE-EN 1015-18:2003	0,6 0,6	kg/m ² *min ^{0.5}
<i>Acoustic</i> INSULTERM 500/600	UNE EN ISO 140-3:1995 ISO 717-1:1996	63 R _w 61 R _a dBA	
<i>Thermal conductivity</i> ETICS - SYSTEM INSULTERM 500/600 EXTERIOR HEAT INSULATION SYSTEM 10 cm + 1,2 cm MYCA 63	UNE-EN 12667:2002	0,138	λ (W/mK)
<i>Dangerous substances</i>	<i>Safety sheet if requested</i>		

- Transport -** No special protective measures or hazardous goods markings are necessary.
- Disposal -** Dispose of in accordance with local, state or federal regulations.
- Clean Up -** Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Health Hazard Information:

Health Effects

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Symptoms that may arise if the product is mishandled are:

Acute effects

- Swallowed: Ingesting large amounts may result in nausea and minor discomfort.
- Eye: Any fine dust may be an eye irritant.
- Skin: Contact with skin may result in irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
- Inhaled: Inhalation of dust may result in respiratory irritation.

First Aid

- Swallowed: Rinse mouth with water. Give plenty of water to drink. Seek medical advice
- Eye: Irrigate with copious quantities of water for fifteen minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
- Skin: Wash contaminated skin with plenty of water. If irritation occurs seek medical advice.
- Inhaled: Remove victim from exposure. Seek medical advice if effects persist.

UPDATES AND CURRENT INFORMATION

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NEW GENERATION OF MATERIAL & BUILDING SOLUTION

PRODUCT DATA SHEET

CRUPE 71

SELF-LEVELLING SCREED

General Technical Approval

UNE - EN 1015 -1100 UNE - EN 102031/82



APPLICATION AREA

CRUPE 71 self-levelling screed is suitable for floors in **CRUPESTEEL Housing System**, offices, building and places exposed to similar loads. **CRUPE 71 self-levelling screed** may be applied as a leveling screed directly onto INSULTERM 500 / 600 or a load bearing floor and may be used in conjunction with under floorheating or cavity floors. **CRUPE 71 self-levelling screed** should be covered with a floor finish such as tiles, linoleum, parquet, cork or carpet. If a cement based adhesive or smoothing compound is required the surface of **CRUPE 71 self-levelling screed** must first be sealed, using the appropriate sealer.

PRODUCT PROPERTIES

CRUPE 71 self-levelling screed is a **newly invented**, high-quality screed material based on

CALCIUM SULPHATE / CEMENT, SAND & FIBER.

APPLICATION / MIXING

CRUPE 71 self-levelling screed is a special pre-blended dry mix and designed for application at thicknesses of between 35 and 50 mm.

- 9 pumpable
- 9 easy workability
- 9 suitable for underfloor heating
- 9 reduced drying time
- 9 can be used as an underlayment in wet areas
- 9 smooth finish

CRUPE 71 self-levelling screed is designed for use as a bonded thick levelling screed on concrete. In addition it can also be applied as a floating screed over thermal or acoustic insulation, or as an unbonded screed on top of a plastic membrane.

CRUPE 71 self-levelling screed should be mixed with 5,3 - 5,5 litres of additivated clean water per 25kg bag, of dry powder. Do not exceed the recommended quantities as too much water leads to a reduction in the overall strength of the cured material. Mixing time, if using a hand held drill and paddle, is 3 minutes. Do not mix more material than can be laid in 20 minutes.

MATERIAL CONSUMPTION

$$1 \text{ cm} = 17,5 \text{ kg} / \text{m}^2$$

Note: These estimates take no account of wastage and will vary according to the method of application.

A suitable mixing pump system, approved by CRUPE TECHNOLOGY SYSTEMS, should be used for mechanical mixing. The best temperature for mixing is between 10-20 C.

Pumping is carried out in sections so that a wet edge is maintained. A wide steel 'wobble' bar is used to assist the levelling process. When applied bonded the minimum thickness of **CRUPE 71 self-levelling screed** should be 35mm, over underfloor heating this should be a minimum of 25mm over the pipes.

Sound trade practices and printed instructions must be followed.

WORKABILITY / POT LIFE

Time to change from liquid to plastic state	- 1 h 15'
Duration of plastic state	- 2 h 15'
Hardening time before light traffic	- 48 h

CONDITIONS OF USE

Light ventilation in the work area is necessary but windows and openings must be closed sufficiently to avoid draughts during and after application. Indoor and floor temperature must exceed +5 °C during and after application and one week after that. The relative humidity of the ambient air must not fall below 50%.

PREPARATION

The substrate should be clean, dry, free of dust, grease and other impurities that might prevent adhesion. The substrate is vacuum-cleaned. Dry and very porous substrates must be treated twice. If screed is to be applied on plastic sheeting or acoustic insulation panels, a gap of minimum 8mm should be formed around the perimeter (walls, columns, etc.) as well.

STORAGE AND HANDLING

Protect from freezing 32° F (0° C) and temperatures in excess of 90° F (32° C).
Store away from direct sunlight.
Protect from moisture and humidity.
Store under cover, off the ground in a dry location.

SHELF LIFE

6 months, if properly stored and sealed.

SITE CONDITIONS

Hot or very dry conditions accelerate drying and moisture loss which can affect resistance to cracking. Adjustments in the application, scheduling and curing will prevent rapid loss of moisture are necessary to achieve a satisfactory result. Cold temperatures retard drying and adjustments may have to be made in the application, scheduling to prevent application damage from frost and other trades. Do not apply during extremely hot, dust, dirt, rain, freezing, dry and/or continuous windy conditions. Do not apply during freezing conditions or on frozen substrates.

CHARACTERISTICS

CRITERIA	EUROPEAN / ISO STANDARD	VALUE	UNIT
Density		~1.750	kg / m ³
Compressive strength 7 Days 28 Days	UNE-EN 1015-11/00	116 139	kp/cm ²
Bending strength 7 Days 28 Days	UNE-EN 1015-11/00	26 33	kp/cm ²
Tensile adhesion strength 7 Days Concrete EPS 28 Days Concrete EPS	UNE-EN 1015-11/00	 3,59 1,93 4,42 2,46	 f _u Kp/cm ²
Chemical resistance	Detergent Bleach NaOH 3% } no visible defects observed		

Transport - No special protective measures or hazardous goods markings are necessary.

Disposal - Dispose of in accordance with local, state or federal regulations.

Clean Up - Clean tools and equipment with water immediately after use.
Dried material can only be removed mechanically.

Health Hazard Information:

Health Effects

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Symptoms that may arise if the product is mishandled are:

Acute effects

Swallowed:	Ingesting large amounts may result in nausea and minor discomfort.
Eye:	Any fine dust may be an eye irritant.
Skin:	Contact with skin may result in irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
Inhaled:	Inhalation of dust may result in respiratory irritation.

First Aid

Swallowed:	Rinse mouth with water. Give plenty of water to drink. Seek medical advice
Eye:	Irrigate with copious quantities of water for fifteen minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
Skin:	Wash contaminated skin with plenty of water. If irritation occurs seek medical advice.
Inhaled:	Remove victim from exposure. Seek medical advice if effects persist.

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NEW GENERATION OF MATERIAL & BUILDING SOLUTION

PRODUCT DATA SHEET

CRUPE PRO 58

INTERIOR RENDERING PASTE

General Technical Approval

UNE-EN 13279-1:2008



APPLICATION AREA

INTERIOR RENDERING AND CRUPESTEEL HOUSING SYSTEM

REHABILITATION

MONUMENT RESTAURATION

PRODUCT PROPERTIES

CRUPE PRO 58 is lightweight gypsum and specially formulated for projecting and manual use to maximize operator performance and application.

CRUPE PRO 58, apart from obtaining high productivity of the operator and the physical and mechanical performance (an exceptional surface finish such as hardness etc.), has great advantages to other types of gypsum / plaster due to its outstanding higher quality in connection with **CRUPE 58 additive**.

APPLICATION

CRUPE PRO 58 can be applied by hand, or by using a render spray machine (ask us about suitable machines).

Initial setting time* : >50 min.

- After optimally sealing joints and chases, apply 15 mm of CRUPE PREMIUM in a single work step.
- In 2 work steps (wet in wet), for example 8 - 10 cm possible.
- Mixing time: Do not exceed 3 minutes

Smaller amounts can be mixed with a hand mixer

Rule level and allow to set.

Avoid intense processing of the fresh surface

The quality of application of these materials depends on suitable operative skills and product familiarity.

Sound trade practices and printed instructions must be followed.

There are many factors that affect the setting time of a render including temperature, prevailing winds, water addition, thickness of coat and type of substrate i.e. high or low suction. The experience, skill and product knowledge of the applicator will play an important part in determining when to apply the render.

CRUPE PRO 58 will set and gain hardness in a similar manner to all conventional mineral renders and in common with all other mineral renders, newly applied render must not be allowed to dry out too quickly. Therefore in extreme hot weather conditions it may be necessary to protect the newly applied render from the sun and drying winds.

***NOTE: Time of use may vary depending on different factors: water / plaster, temperature, water pH, media type, mixing time and speed.**

CONSUMPTION

Approx. 9 - 10 kg / m² / cm

Note: These estimates take no account of wastage and will vary according to the method of application.

CHARACTERISTICS

Water/ additivated	- 0,65 - 0,70 (l / kg)
Purity	- > 50%
pH	- ≥ 6
Granulometry	- 0 - 1,5 mm
Workability	- 110 - 130 min.

STORAGE AND HANDLING

Protect from freezing 32° F (0° C) and temperatures in excess of 90° F (32° C).

Store away from direct sunlight.

Protect from moisture and humidity.

Store under cover, off the ground in a dry location.

SHELF LIFE

6 months, if properly stored and sealed.

SITE CONDITIONS

Hot or very dry conditions accelerate drying and moisture loss which can affect resistance to cracking. Adjustments in the application, scheduling and curing, which are preventing rapid loss of moisture, are necessary, to achieve a satisfactory result. Cold temperatures retard drying and adjustments may have to be made in the application, scheduling to prevent application damage from frost and other trades. Do not apply during extremely hot, dust, dirt, rain, freezing, dry and/or continuous windy conditions. Do not apply on frozen substrates.

Transport - No special protective measures or hazardous goods markings are necessary.

Disposal - Dispose of in accordance with local, state or federal regulations.

Clean Up - Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

NOTES

The correct, and hence successful, application of our products is not within our control.

A guarantee can, therefore, only be accepted for the quality of our products within the framework of our sale and supply conditions but not for their successful use.

Observe the safety precautions for protection of health and prevention of accidents given in the safety data sheet and on the label of the packaging.

This data sheet supersedes all earlier technical data on this product.

Information supplied by our employees and/or our distributors beyond the information contained in this data sheet, must be confirmed in writing.

We reserve the right to make changes representing technical progress without written notice.

Visit our website for updates and current information.

Further information: www.grupocrupe.com

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Health Hazard Information:

Health Effects

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First Aid

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NEW GENERATION OF MATERIAL & BUILDING SOLUTION

PRODUCT DATA SHEET

MYCA 63

EXTERNAL RENDERING OF MORTAR COATING

General Technical Approval

UNE-EN 13279-1:2009



APPLICATION AREA

EXTERNAL THERMAL INSULATION COMPOSITE SYSTEM (ETICS)

&

CRUPESTEEL HOUSING SYSTEM

PRODUCT PROPERTIES

A new generation **GYSPUM / CEMENT / SAND** based one-coat lightweight render, incorporating fiber, specifically designed and manufactured for a one coat application on to

CRUPE INSULTERM

APPLICATION

CRUPE 63 can be applied by hand, or by using a render spray machine (refer to CRUPE render solutions for examples of suitable pumps).

Mix 25kg of **CRUPE 63** with 4,7 - 5,0 litres **additivated** clean water. If the material has been allowed to stand for 5 - 10 minutes, it may be necessary to remix (do not add water) immediately prior to application.

Sound trade practices and printed instructions must be followed.

Finish

Apply a first pass approximately 6 - 7 mm thick and when the render begins to take up, apply a further 8 - 9 mm forming a minimum 15 mm monolithic render coat. Rule level and allow to set.

Continuously apply and terminate applications at corners.

The quality of application of these materials depends on suitable operative skills and product familiarity.

Setting time

There are many factors that affect the setting time of a render including temperature, prevailing winds, water addition, thickness of coat and type of substrate i.e. high or low suction. The experience, skill and product knowledge of the applicator will play an important part in determining when to apply the render, to ensure the scraping time fits in with his working practice.

As with all mineral renders, in low temperatures setting times will be longer than in warmer periods. In hot weather or in strong drying winds if the render is applied early in the morning it will be possible to scrape back in the late afternoon on the same day of application.

CRUPE 63 will set and gain hardness in a similar manner to all conventional mineral renders and in common with all other mineral renders, newly applied render must not be allowed to dry out too quickly and must be allowed to fully hydrate. Therefore in extreme hot weather conditions it may be necessary to protect the newly applied render from the sun and drying winds.

CONSUMPTION

Approx. 17, 5 kg / cm / m²

Note: These estimates take no account of wastage and will vary according to the method of application.

CONDITIONS OF USE

Smaller amounts can be mixed with a hand mixer

Mixing time: Do not exceed 4 - 5 minutes

Avoid intense processing of the fresh surface.

STORAGE AND HANDLING

Protect from freezing 32° F (0° C) and temperatures in excess of 90° F (32° C).

Store away from direct sunlight.

Protect from moisture and humidity.

Store under cover, off the ground in a dry location.

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CHARACTERISTICS

CRITERIA	EUROPEAN / ISO STANDARD	VALUE	UNIT
<i>Density</i>		~1.750	kg / m ³
<i>μ - Water vapor permeability</i>	UNE-EN 1015-19:1999	11,84	
<i>Compressive strength</i> 7 Days 28 Days	UNE-EN 13279-2	9,4 13,1	N/mm ²
<i>Bending strength</i> 7 Days 28 Days		3,2 3,5	N/mm ²
<i>Water absorption</i>	UNE-EN 1015-18:2003	0,3	kg/m ² *min ^{0.5}
<i>Dangerous substances</i>	<i>Safety sheet if requested</i>		

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