



# MONO CHROME

Lime and cement-based,  
mineral one coat rendering  
mortar for mechanical  
projection



konstruktive • **leidenschaft**



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## PRODUCT DESCRIPTION

**MONO.CHROME** is a ready to use mineral render for internal and external use on traditional masonry brick, blocks or concrete.

The product allows to protect, smooth and decorate, surfaces maintaining good breathability of walls. This product is designed for mechanical projection.

## COMPOSITION

**MONO.CHROME** is a premixed product made up of special white cements, aerial lime, selected and appropriately gauged calcareous aggregates, special hydrophobic mass, inorganic pigments and specific additives that improve the quality of the product in terms of workability, breathability and adhesion to substrates.

## MIXING AND APPLICATION

**MONO.CHROME** can be applied by mechanical projection using plastering machine for premixed products or manually.

The substrates to be plastered must be homogeneous, stable, clean, solid, free of brittle parts, dust, bacterial proliferation, saline efflorescence, oils, grease, wax, residues of previous work, etc. If necessary, clean the substrate by sandblasting or pressure washing. Smooth and non-absorbent or compact concrete surfaces must be previously treated with a layer of **BETON RINZAFFO** or with a layer of primer **MONOGRIP** to improve the adhesion of the render. The render application should be done 24-48 hours after applying the preparation coat **BETON RINZAFFO** or 12 hours after applying the primer.

If the render has to be applied on non-homogeneous surfaces, insert within the render layer the fibreglass alkali-resistant reinforcement mesh **ARMANET 10X10**. The mesh should overlap by at least 30 cm beyond the product applied and be inserted within the render and not adherent to the wall.

For manual application, mix the product by adding approx. 5.0-5.5 litres of clean water per 25 kg bag in a cement mixer. Pour the correct amount of water into the cement mixer and then add the powder. Mix the product for about 2-3 minutes until smooth and free of lumps. Apply the product with a trowel as a traditional plaster. The mixed product is usable within 90' minutes after mixing with water.

The preparation of corner bead, level guides, etc. should be performed before applying the plaster layer on the wall.

For applications by machine, apply the product evenly in a single layer, with a thickness between 12 and 20 mm. Levelling and finishing the render layer with an aluminium screed bar. Any smudges or excess material is to be eliminated by scraping and sanding.

### SCRAPED FINISH

Apply render layer with a thickness of approx. 15 mm. When the render is in the process of curing, or at the end of the setting phase, after 4 to 8 hours depending on environmental conditions and the type of substrates, eliminate the surface crust, with the help of scraper tool to get a scraped finish.

### FLOAT OR TROWELLED FINISH

Apply render layer with a thickness of approx. 12 mm. The following day, apply a further layer with minimum thickness and finish with a sponge trowel or a wooden or plastic trowel.





**INDICATIVE AMOUNTS REQUIRED**

14 kg/m<sup>2</sup> per 10 mm of thickness.

**COLOUR**

Collection: MINERAL.colours 2.0

**PACKAGING**

25 kg bags on disposable 1575 kg pallet (63 bags) protected by waterproof plastic wrap.

**STORAGE**

12 months in original intact packaging and stored in a dry place.

**RECOMMENDATIONS**

Do not apply in temperatures less than + 8°C or more than + 30°C, in a strong wind, rain or under direct sunlight. Temperatures below + 8°C with high percentage of humidity can cause superficial carbonation.

In high temperatures, it is recommended to evenly wet the substrates with clean water before applying product.

Do not apply to surfaces that are frozen, dusty, inconsistent or unstable.

Product thickness should be from 12 to 20 mm per layer.

Do not apply to gypsum-based substrates, fibre cement or expanded mineral and organic panels.

For external use, always provide a gap from sidewalks, pavements or horizontal surfaces in general in order to avoid water absorption.

The colour may vary, depending on the temperature and humidity in the environment.

Always use the same amount of water when preparing to avoid possible colour variations.

On extended surfaces provide adequate clearance of drains or joints, or create appropriate technical cuts.

When applying avoid prolonged intervals until wall completion.

Protect the applied product from frost, rain and rapid drying for the first 24 hours.

**PRODUCT DATA**

<i>Appearance</i>	powder	
<i>Colour</i>	white or coloured	
<i>Dry bulk density</i>	~ 1450 kg/m <sup>3</sup>	EN 1015-10
<i>Maximum aggregate size</i>	≤ 1.5 mm	

**APPLICATION DATA**

<i>Water content of mix</i>	20-22%
<i>Mixing ratio</i>	1 bag + 5.0-5.5 ℓ of water
<i>Minimum application temperature</i>	+ 8°C
<i>Maximum application temperature</i>	+ 30°C
<i>Working time</i>	≥ 90' minutes

**PERFORMANCE DATA**

<i>Bulk density of fresh mortar</i>	~ 1850 kg/m <sup>3</sup>	EN 1015-6
<i>Bulk density of hardened mortar</i>	~ 1400 kg/m <sup>3</sup>	EN 1015-10
<i>Adhesion after weathering cycles</i>	0.45 N/mm <sup>2</sup> (FP) B	EN 1015-12
<i>Air content</i>	11%	EN 1015-7
<i>Consistence of fresh mortar</i>	130 mm	EN 1015-3
<i>Compressive strength</i>	≥ 2.0 N/mm <sup>2</sup> CS II	EN 1015-11





<i>Flexural strength</i>	≥ 1.0 N/mm <sup>2</sup>	EN 1015-11
<i>Capillary water absorption</i>	≤ 0.0006 kg/m <sup>2</sup> x min <sup>0.5</sup> W2	EN 1015-18
<i>Water permeability after weathering cycles</i>	0.5 ml/cm <sup>2</sup> after 48 h	EN 1015-18
<i>Water vapour permeability coefficient</i>	≤ μ 15	EN 1015-19
<i>Thermal conductivity</i>	0.47 W/mK (tab. mean value; P=50%)	EN 1745, A.12
<i>Specific heat capacity</i>	1.0 kJ/kgK	EN 1745, A.12
<i>Reaction to fire</i>	A1 Class	EN 13501-1
<i>Durability</i>	Evaluation based on provisions valid in the intended place of use of the mortar	EN 998-1
<i>Hazardous substances</i>	See MSDS	EN 998-1

**ACCORDING TO**



**EN 998-1**

One coat rendering mortar for external use (OC)

**REMARKS**

**Product for professional use.** The data and instructions in this data sheet are based on our best practical and laboratory experience. They refer to laboratory tests and should be considered indicative. In view of the different conditions of use and application, which depend on factors over which Vimark has no control (type of surface, environmental conditions, technical indications for fixing, etc.), those who use the product are responsible for ascertaining whether or not it is suitable for the intended purpose. Thus our warranty obligation merely covers the quality and fade-free characteristics of the actual product, and exclusively in relation to the aforementioned data. Vimark reserves the right to make technical modifications without prior notice. This technical data sheet voids and substitutes all previous editions. Updates will be published on the web site [www.vimark.com](http://www.vimark.com).

