

Release 3: 31/01/2022

ST40polymer-modified final-coat render

- Excellent workability
- Strong adhesion to the substrate
- Water repellent
- It allows water-vapour permeability of surfaces
- Eliminates material loss and significantly reduces the labor cost













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ST40

polymer-modified final-coat render

DESCRIPTION

Ready-mixed, cement-based, final-coat render, modified with polymers and other special admixtures, used for the smooth finishing of the wall surfaces.

It exhibits high mechanical strengths, strong adhesion to the substrate, reduced water permeability of the final surface and excellent workability either when applied with a pumping machine or by hand.

Classified as general purpose (GP) mortar type CS II, W1 according to the European standard EN 998-1.

APPLICATIONS

Final-coat render ST 40 is applied after the base-coat render (SB 30) in order to produce a smooth final surface ready to be painted.

Can also be used for minor repair works.

It is suitable for indoor and outdoor applications.

PROPERTIES / ADVANTAGES

- Excellent workability either when applied with a pumping machine or by hand.
- Increased water repellent properties providing reduced water permeability of the final surface.
- It allows water-vapour permeability of surfaces.
- High adhesion to the substrate and increased mechanical properties.
- Smooth final surface, ready to be painted.
- It does not crack.
- Eliminates material loss and significantly reduces the labor cost.

HARMONIZED STANDARDS / REGULATIONS

- EN 998-1: General purpose (GP) rendering mortar for external and internal use, type CS II, W1.
- Regulation (EC) No. 305/2011: CE marked product with Declaration of Performance (DoP): ST40/CPR-7-13/010/29-10-2013.

APPLICATION INSTRUCTIONS

- Before application surfaces must be clean, free of dust, grease, loose remnants, etc.
- Final-coat render ST 40 is applied to substrates previously prepared with base-coat render SB 30 or a similar traditional render.

- During hot or windy weather, it is recommended to thoroughly dampen the substrate before the application of ST 40, in order to avoid rapid dehydration of the render.
- The content of the bag (30kg) is gradually added into 6.3-6.6 kg of clean water under continuous stirring until a uniform and workable mixture is formed. Use a suitable mortar mixing and pumping machine, or a standard mortar mixer, or even a low speed power drill (approx. 300rpm).
- Apply the render by a mortar pumping machine or byhand using a trowel to the desired thickness and then level the surface using a metal featheredge.
- Let the surface stiffen and then treat it by spraying a small quantity of water and rubbing with a hard rubber or a float sponge.
- Stiffening time depends on the type of the substrate, the applied render thickness and consistency, as well as the ambient conditions.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

RECOMMENDATIONS

- Temperature during application should be between +5°C and +35°C.
- Do not mix the product with dirty or salty water.
- Do not use excess water as it will affect the product's final adhesion strength and mechanical properties.
- Avoid long mixing time as it entrains too much air in the mortar, subsequently affecting the mechanical properties of the product.
- The application thickness should be 5-7mm per layer. Application in thicker layers may lead to the formation of capillary cracks.
- Avoid excess treatment of the surface of the render or excess use of water during the sponge finishing procedure as it may cause the creation of capillary micro-cracks on the surface.
- The application during ambient conditions other than those specified may cause the creation of microcracks on the render surface.
- Do not add water after the mix has started to set.

TECHNICAL CHARACTERISTICS	
PRODUCT CHARACTERISTICS	
Appearance	cementitious powder
Colour	white
Bulk density	1.50 ±0.05 kg/lt
Maximum grain size	1.0 mm
APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)	
Mixing ratio	21-22% w/w (6.3-6.6 kg water/30kg bag)
рН	> 11
Density (EN 1015-6)	1.75 ±0.05 kg/lt
Application temperature	minimum: +5°C / maximum: +35°C
Pot life	3 hours (22°C)
Application thickness per layer	5-7 mm
Consumption	approximately 6-7 kg/m 2 for a 5mm thick layer
PERFORMANCE CHARACTERISTICS	
Density of hardened mortar (EN 1015-10)	1.50 ±0.05 kg/lt
Compressive strength after 28 days (EN 1015-11)	≥ 3.30 N/mm ² - Class CS II
Flexural strength after 28 days (EN 1015-11)	≥ 1.60 N/mm ²
Adhesion to concrete (EN 1015-12)	≥ 0.35 N/mm²
Capillary water absorption (EN 1015-18)	≤ 0.40 kg/m²·min ^{0.5} - Class W1
Water-vapour diffusion coefficient, μ (EN 1015-19)	5/20 (table value)
Themal conductivity coefficient, $\lambda_{10,dry}$ (EN 1745)	0.47 W/mK (table A12 for P=50%)
Reaction to fire (EN 13501-1)	Class A1

Note: Measures were carried out in laboratory environment conditions. The different conditions on site (temperature, humidity, wind, substrate absorption) may affect the properties of the material.

SAFETY PRECAUTIONS

- The product contains cement which has an alkaline reaction with water and is classified as irritant.
- Always wear appropriate personal protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, rinse well with plenty of clean
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Consult product's Safety Data Sheet for further instructions on safety handling.
- PRODUCT FOR PROFESSIONAL USE.

PACKAGING - STORAGE

Available in:

30kg paper bags.

Storage: 12 months from production date, if stored in original, sealed packaging, protected from direct sunlight and moisture.

LEGAL NOTICE

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