

Exzellent STP historic

Universal render in the Exzellent STP lime render system Cement-free, hand- and machine-applied render



PRODUCT PROPERTIES

- One-component, moisture regulating, fungal-retarding
- Absolutely cement-free, 0 % cement content
- Contains natural hydraulic lime (NHL 3,5)
- Salt Transport Plaster and moisture regulation render
- Water- and salt-conveying due to special pore geometry
- Non-hydrophobized, open to water vapour diffusion
- Sustainable, no sacrificial render
- High layer thickness, low dead load
- Low shrinkage
- Resistant to weathering, high-water and splash water
- Non-flammable according to EN 13501-1-building material class A1
- DGNB-registered (Code: 3SWIMH)

AREAS OF APPLICATION

- Suitable as preparatory- and levelling render and finishing coat in the Exzellent lime plaster system
- Permanent moisture regulation in interior, exterior and base areas
- Suitable for restoration of historic and heritage buildings
- Application in base areas without additional flanking measures
- Suitable for highly saline and moist brickwork with a moisture ratio of up to 95 %

APPLICATION ADVICE

Substrate preparation / Pre-wetting: See leaflet "General Application Advice Exzellent STP lime plaster system". Prior to application of Exzellent STP historic the substrate must be pre-wetted thoroughly. A closed water film must be avoided. When starting application the substrate should be slightly damp.

Mixing: Exzellent STP historic is added to the prepared water under constant stirring and mixed until homogeneous and lump-free. The consistency is adjusted by adding powder, extra water must not be added. Double mixers must be used for mixing. Mixing by hand is not permitted. Mixing takes 2 minutes. Following a setting time of at least 1 minute the material is stirred again for 30 seconds.

Render build-up: Exzellent STP historic is part of the Exzellent STP lime plaster system and may be used as preparatory- and levelling render and as finishing coat. The different mixing ratios must be observed. For detailed information on render build-up please request our special advice.

Application: Exzellent STP historic may be applied in one or more layers, either by hand or using standard fine render feed pumps including pan mixer. Please request our special advice or the equipment planner for machine-applied render systems.

Surface finish: See leaflet "General Application Advice Exzellent STP lime plaster system". The surface may either be finished in its own juice, without addition of extra water, using a foam rubber or felt float or finally abraded using a grid float. Exzellent STP historic must not be finished with a sponge board under any circumstances!

Curing: Freshly applied Exzellent STP historic must be protected from drying out too quickly due to sun, wind or heat, in order to prevent, for example, a loss of strength or the formation of cracks. The plastered surfaces must therefore be kept damp by evenly wetting them with water over a period of several days, depending on the weather conditions and the absorbency of the substrate. This measure must only be carried out once the mortar has set sufficiently, in order to prevent leaching and the formation of a sintered layer on the surface.

General information: Painting of finishing coats should be avoided, if possible, to not impair the high "breathability" of the render. If a coat of paint is required, do not use any vapour sealing paints or coatings under any circumstances. Only highly diffusible, silicate-based paint coats with the following characteristics are permitted: Diffusion resistance S_d -value: $< 0.01 \text{ m}$. According to DIN 13914-1, hairline cracking is caused by uneven shrinkage of the plaster surface. These

APPLICATION ADVICE

cracks are 0.2 mm or smaller and do not impair the plaster's performance, as they do not extend far below the surface of the plaster. Smooth surfaces are more prone to hairline cracking.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Maximum grain size	mm	2.2	
Dry bulk density	kg/dm ³	approx. 1.3	
Mixing ratio	kg/l		
As preparatory render		25 : 7.5 - 8.2	powder component : water
As a levelling plaster		25 : 6 - 6.5	powder component : water
As a finishing plaster		25 : 6 - 6.5	powder component : water
Air void content of the fresh mortar	%	≥ 18	
Working time	minutes	approx. 30	at 20 °C
Application conditions	°C	≥ 10 ≤ 30	air, substrate and material temperatures
Consumption	kg/m ²		
As preparatory render		4 - 5	applied by spatter-dash method
		11	with full-area pre-spraying
	kg/m ² /mm		
As a levelling plaster		approx. 1.25	dry mortar
As a finishing plaster		approx. 1.25	dry mortar
Layer thickness	mm	30	maximum layer thickness per pass/operation
		20	minimum total layer thickness
Overworkable after	hours	24	pre-spray plaster / top plaster coat
	day(s)/mm	1	Levelling / Finishing plaster coat
Thermal conductivity λ	W/m · K	0.47	
Resistance to water vapour diffusion Sd	m	< 0.05	at 2 cm layer thickness
Total porosity (solid mortar)	Vol.-%	≥ 45	Total porosity
		≥ 20	Macroporosity fraction
		≥ 20	Microporosity fraction
All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.			
Colour	Light Beige		
Delivery form	25 kg bag		
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.		
Packaging disposal	Make sure single-use containers are completely empty.		

Note: The information in this data sheet must be adapted by the installer, specialist planner, and/or building inspector to the respective construction project, intended use, and specific local conditions. Any non-standard local conditions must be taken into account, and application-specific conditions must be reviewed in advance by the planner/specifier. Deviations from the specified standard conditions require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2600033640]