

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

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

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

Exzellent STP historic must be prevented from drying out too rapidly and protected from direct sun and wind exposure.

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 m.

Technical Data for Exzellent STP historic

Characteristic	Unit	Value*	Comments
Largest grain size	mm	2.2	
Dry density	kg/dm ³	approx. 1.3	
Coverage:			
as preparatory render	kg/m ²	4 - 5	
as levelling render	kg/m ² /mm	approx. 1.25	
as finishing coat	kg/m ² /mm	approx. 1.25	
Application time	minutes	approx. 30	at + 20 °C
Overcoating time	hours	24	preparatory render / finishing coat (+ 20 °C)
	day(s)/mm	1	levelling render / finishing coat (+ 20 °C) (1 day per mm layer thickness)
Air void content of the fresh mortar	%	≥ 18	
Total porosity	%	≥ 45	
Percentage of macropores	%	≥ 20	
Percentage of micropores	%	≥ 20	
Thermal conductivity λ	W/m·K	0.47	
Water vapour diffusion resistance S _d	m	< 0.05	at 2 cm layer thickness
Layer thickness	mm	20	max. total layer thickness
Application temperature	°C	+ 5 to + 30	air-/material-/substrate temperature
Mixing ratio:			
as preparatory render	kg : l	16 - 17 : 5	Exzellent STP historic : water
as levelling render	kg : l	22 - 25 : 5	Exzellent STP historic : water
as finishing coat	kg : l	22 - 25 : 5	Exzellent STP historic : water

Product Characteristics for Exzellent STP historic

Colour	light beige
Delivery	25 kg bags
Storage	Can be stored in cool and dry conditions for at least 12 months in originally sealed packs.
Disposal	Packs must be emptied completely.

* All technical values are lab values and have been determined at + 23 °C and 50 % relative humidity.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 12/18. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.