

Exzellent STP 540

Preparatory and levelling render in the Exzellent STP system Hand- and machine-applied render grey

Product Properties

- One-component
- Salt Transport Plaster and moisture regulation render
- Moisture regulating, fungal-retarding
- 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 a bonding coat for rough substrates
- Levelling and jointing of rough or uneven render substrates prior to application of Exzellent final coats
- Interior, exterior and base areas, permanent moisture regulation for all types of brickwork at old and new buildings - without extensive drying measures
- Suitable for highly saline and moist brickwork with a moisture content up to 95 %

Application

Substrate preparation

See leaflet "General Application Advice Exzellent STP system".

Application / Pre-wetting

Prior to application of Exzellent STP 540 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 540 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 waiting time of at least 1 minute the material is stirred again for 30 seconds.

Render build-up

Exzellent STP 540 is a preparatory and levelling render and part of the Exzellent rendering system. Drying times and maximum layer thicknesses

must be observed. For detailed information on render build-up please request our special advice.

Application

Exzellent STP 540 may be applied in one or more layers, either by hand or using standard fine render feed pumps including remixer. Please request our special advice or the equipment planner for machine-applied render systems.

Surface finish

See leaflet "General Application Advice Exzellent STP system". If applied as preparatory render, Exzellent STP 540 is applied continuously onto the brickwork. For levelling the still fresh material is spread using an h-shaped plasterer's float and afterwards trowelled horizontally using a tooth trowel with 8 mm toothing. This horizontal tooth provides the mechanical bond to subsequently applied layers. Following a sufficient drying time the surface is overcoated with an Exzellent STP final coat.

Curing

Exzellent STP 540 must be prevented from drying out too rapidly and protected from direct sun and wind exposure.



Technical Data for Exzellent STP 540

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	approx. 10	full-surface rendering
as levelling render	kg/m ² /mm	approx. 1.25	
Application time	minutes	approx. 30	at + 20 °C
Overcoating time	hours	24	preparatory render / finishing coat (at + 20 °C)
	days	4	levelling render / finishing coat (at + 20 °C)
Air void content of the fresh mortar	%	≥ 18	
Total porosity	%	≥ 35	
Percentage of macropores	%	≥ 15	
Percentage of micropores	%	≥ 15	
Thermal conductivity	W/m K	0.47	
Water vapour diffusion resistance S _d	m	< 0.05	at 2 cm layer thickness
Layer thickness	mm	10	min. total layer thickness
		30	max. total layer thickness
Application temperature	°C	+ 5 to + 30	air-/material-/substrate temperature
Mixing ratio: as preparatory render	kg : l	23 - 25 : 5.5	Exzellent STP 540 : water
as levelling render	kg : l	23 - 25 : 4.8	Exzellent STP 540 : water

Product Characteristics for Exzellent STP 540

Colour	grey
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.