

# Exzellent STP 510

## Final coat in the Exzellent STP system Hand-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

- Interior, exterior and base areas, permanent moisture regulation for all types of brickwork at old and new buildings - without extensive drying measures
- Application in base areas without additional flanking measures
- Suitable for highly saline and moist brickwork with a moisture content up to 95 %

### Application

#### Substrate preparation / Pre-wetting

See leaflet "General Application Advice Exzellent STP system". Prior to application of Exzellent STP 510 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 510 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 510 is a finishing coat and part of the Exzellent render system. To achieve the full moisture regulation effect, a minimum layer thickness of 20 mm is to be applied. For detailed information on render build-up please request our special advice.

#### Application

Exzellent STP 510 may be applied by hand in one or more layers.

To ensure the open-pore geometry, Exzellent STP 510 must be levelled using a h-shaped plasterer's float.

#### Surface finish

See leaflet "General Application Advice Exzellent STP 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 510 must not be finished with a sponge board under any circumstances!

#### Curing

Exzellent STP 510 must be prevented from drying out too rapidly and protected from direct sun and wind exposure.

#### General information

Painting of final coats should be avoided, if possible, to retain 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 510

Characteristic	Unit	Value*	Comments
Largest grain size	mm	2.2	
Dry density	kg/dm <sup>3</sup>	approx. 1.4	
Coverage	kg/m <sup>2</sup> /mm	approx. 1.25	
Application time	minutes	approx. 30	at + 20 °C
Total porosity	%	≥ 45	
Percentage of macropores	%	≥ 20	
Percentage of micropores	%	≥ 20	
Thermal conductivity $\lambda$	W/m·K	0.47	
Water vapour diffusion resistance $S_d$	m	< 0.05	at 2 cm layer thickness
Layer thickness	mm	20 30	min. total layer thickness max. total layer thickness
Application temperature	°C	+ 5 to + 30	air-/material-/substrate temperature
Mixing ratio	kg : l	23 - 25 : 4.3	Exzellent STP 510 : water

## Product Characteristics for Exzellent STP 510

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.