Oxal WP

Mineral-bound restoration render for wet and salt-loaded surfaces

Product Properties

- High- capacity for salt- storage
- High water vapour diffusion rate
- Damp-, weather- and frost- resistant
- Application by hand or with machine
- High air void content
- Poraver® enhanced

Areas of Application

- Repairing of wet and salt- loaded surfaces in interior and exterior areas
- Suitable for use on all mineral substrates in interior, exterior and splash zone areas

Application Notes

Substrate Preparation
Removing of old plaster for at least 80 cm above the zone of adversity. Coatings, slurries, dust, dirt, bitumen, loose particles etcetera must be removed completely. The substrate must be load-bearing and free from bonding-reducing substances. Brick joints dependent upon salt load must be cleaned out to a depth of at least 2 cm. The brickwork must be cleaned thoroughly with a steel broom or with oil-free compressed air. Closing gaps and joints with Oxal PGP.
Dry or highly absorbent substrates must be pre-wetted sufficiently.

For better adhesion and reducing absorbency of surfaces Oxal VSM must be applied with 50 - 70 % area coverage onto the prepared substrate. Administering Oxal PGP as first render layer, according the technical data sheet, this compensating render is necessary for filling great unevenness and for high vulnerable salt concentrations.

Mixing
The content of one Oxal WP unit is poured into approx. 4.5 - 5 l of clean water and stirred with a slow-moving agitator until a lump-free, workable consistency has been achieved. The mixing must take at least 5 minutes. Before mixing with commercial mixer and machines, please consult our application technology department.

Application
The application thickness of Oxal WP depends on the salt exposure.
The layer thickness of Oxal WP is 20 mm. Render thickness > 20 mm demands a second layer. A time of 1 day per mm layer thickness is necessary (20 °C / 65 % relative humidity) before applying the next layer. Due to ensuring bond within the individual layers the fresh Oxal WP layer must be roughened horizontal with e.g. a broom. The last layer of render can be levelled with a slat in fresh condition. Smoothening of the surface is done by abrading with a soft sponge-board after sufficient curing.

After-treatment
During the curing phase the fresh Oxal WP must be protected against rapid dehydrating (sun, wind, high temperatures).
If a fine surface is required, a top layer of Exzellent 750 can be applied.

Further Information
Partially cured mortar must not be made ductile again by adding water or fresh mortar!
Please observe the WTA-data sheet 2-2-91 “Repair rendering systems” and DIN 18 550.

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Technical Data for Oxal WP

Characteristic	Unit	Value	Comments
Coverage	kg/m²	approx. 10	Per 10 mm layer thickness
Mixing ratio	kg : l	20 : 4.8	Oxal WP : water
Processing time	minutes	approx. 30	at 20 °C and 65 % relative humidity
Processing Conditions	°C	≥ + 5	air- and substrate-temperature store at > + 5 °C for at least 24 hours before use
Air void contents	Vol.- %	> 25	
Resistance against water vapour diffusion m	-	< 12	
Compressive strength	N/mm²	2 – 4	
Capillary water absorption W_{24}	kg/m²	> 0.3	
Depth of water penetration h	mm	< 5	
Porosity	Vol.- %	> 40	

Product Characteristics for Oxal WP

Test certificate	Inspection report Nr. W 057 12 690 2189 (Institut für Kalk- und Mörtel-Forschung) The demands of WTA-data sheet E 2-9-04/D are complied with.
Storage	Can be stored in original unopened packs for at least 12 months.
Form of Delivery	20 kg sack 1 palette (40 sacks with 20 kg each)
Disposal	To protect our environment, please empty the packs completely!

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

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