

Oxal SPM

Highly sulfate resistant barrier mortar for repairing wet and salt loaded substrates

Product Properties

- Impermeable to water
- High sulfate resistance
- Mechanical load capacity
- Rapidly capable of being exposed to water
- Frost resistant
- Very good workability

Areas of Application

- Suitable for usage on all mineral substrates in interior and exterior areas
- Creation of grooves
- Application as area filling compound for wet and salt loaded substrates
- Additional sealing of buildings from inside - in combination with Oxal DS-HS also in presence of negative water pressure
- Surface levelling, repairing of cracks and closing of grouts

Application Notes

Substrate Preparation

Old plaster and coatings, slurries, dust, dirt, bitumen, loose particles, etc. must be removed completely first. The substrate has to be clean and free from adhesion-reducing substances. Brittle, dusting brick joints must be removed up to a depth of at least 2 cm. Substrate unevenness (e.g. pin holes, rock pockets or moulding-seams) must be smoothed. The brickwork has to be cleaned thoroughly with a steel broom or with oil-free compressed air. Dry or highly absorbent substrates must be pre-wetted sufficiently.

Mixing

The barrier mortar consists of ready-mixed Oxal SPM and water. The content of one Oxal SPM bag is poured into approx. 80 % of the mixing water (clean water) and stirred with a slow-moving agitator until a lump-free, workable consistency has been achieved. The residual 20 % of the mixing water can be used to adjust the desired consistency. The mixing time of at least 3 minutes has to be assured.

Application

Oxal SPM with a layer thickness of 6 - 50 mm can be applied with a trowel or trueing device. A layer thickness of more than 25 mm demands a second layer. When applying a second or further layer, the first or previous layer must be solid but not completely dry. If any salt has penetrated, it must be removed mechanically, e.g. with a broom, before the second layer can be applied.

After Treatment

During the curing phase, the fresh Oxal SPM must be protected against rapid dehydration (sun, wind, high temperatures).

After Treatment

Partially cured mortar must not be reused again by adding neither water nor fresh mortar! Please observe the WTA-data sheet 4-6-05/D "additional waterproofing of structural elements in contact with soil".



Technical Data for Oxal SPM

Characteristic	Unit	Value	Comments
Consumption / Coverage	kg/m ²	approx. 1.5	For 1 mm layer thickness
Mixing ratio	kg : l	25 : 3.4 - 3.6	Oxal SPM : water
Processing conditions	°C	≥ +5	Air and substrate temperature Store at > + 5 ° C for at least 24 hours before usage
Processing time	minutes	approx. 30	At 23 °C and 50 % relative humidity Depending on temperature, humidity, substrate and wet layer-thickness, the drying time is either shortened or extended.
Water exposure after	hours	3	At + 23 °C
Maximum grain size	mm	2	
Compressive strength			
After 7 days	N/mm ²	> 10	
After 28 days		> 15	
Tensile bonding strength			
After 7 days	N/mm ²	> 2	
After 28 days		> 3	

Product Characteristics for Oxal SPM

Colour	grey
Form of Delivery	25 kg bag 1 pallet (40 bags at 25 kg each)
Storage	Can be stored for at least 12 months in original unopened packs under dry conditions. Protect from frost.
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.

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 09/13. 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.