

Oxal DS-HS

Sulphate-resistant Waterproofing Grout for the repair of wet and salt-loaded masonry

Product Properties

- Water-proof up to 1.5 bar
- High sulphate-resistance
- Reduced water vapour permeability

Areas of Application

- Additional sealing of the building from the inside – also in the presence of negative water pressure
- Sealing substrate for Nafuflex-thick bituminous coatings on damp substrates
- Sealing substrate for foundation renders (splash water zone)

Application Notes

Substrate Preparation

Old plaster and coatings, slurries, dust, dirt, bitumen, loose particles and the like must be removed completely. The substrate must be load-bearing and free from bonding-reducing substances.

Brittle, dusting brick joints must be cleaned out to a depth of at least 2 cm. Unevenness, like pin holes, rock pockets or moulding-seams, must be smoothed. The brickwork must then be cleaned thoroughly with a steel broom or with oil-free compressed air. Afterwards the joints have to be closed with Oxal SPM. Dry or highly absorbent substrates must be pre-wetted sufficiently. Water-bearing cracks are closed with the special mortar MC-Fix-ST beforehand

For area-wide interior waterproofing it is necessary to separate the interior walls from the sealed exterior walls, to prevent the migration of humidity. The capillary water transport in the connecting areas of exterior to interior walls can be blocked by injecting Oxal HSP or Oxal HSP-ME.

Application

The content of one Oxal DS-HS unit is poured into approx. 4.5 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 3 minutes. Oxal DS-HS can be applied using the economical spraying method. If you have questions about spraying technology, please request assistance from our application technology department.

Oxal DS-HS is applied amply and surface-covering, by washing, rendering or spraying. Corners and broken edges must be covered especially thoroughly. If several layers are applied, the previous layer must be completely dry before the next one is applied, to avoid damaging the first one. If any salt has penetrated, it must be removed mechanically, e.g. with a broom, before the second layer can be applied.

After-Treatment

The fresh waterproofing grout Oxal DS-HS must be protected from dehydrating too rapidly (sun, wind, high temperatures) during the curing phase. In exterior areas the fresh mortar must be protected from rain exposure.

The sealing must be protected permanently from static, dynamic or thermal damage, by application of a protective coat. The sealing must be completely cured and the protective coating applied before the excavation pit is filled in.

Further Information

Partially cured mortar must not be made ductile again by adding water or fresh mortar! Please observe the WTA-data sheet 4-6-98 "Additional waterproofing of Soil-touching Structural Elements", as well as the "Guideline for the Planning and Execution of waterproofing with Mineral Waterproofing Grouts".



Technical Data for Oxal DS-HS

Characteristic	Unit	Value	Comments
Coverage	kg/m ²	approx. 1.7	per 1 mm layer-thickness
Mixing ratio	l : kg	4.5 : 25	water : Oxal DS-HS
Ready for overworking	hours	approx. 6	at 20 °C and 65 % relative humidity
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
Adhesive tensile strength	N/mm ²	approx. 1.0	after 28 days
Flexural strength	N/mm ²	approx. 6.0	after 7 days
Compressive strength	N/mm ²	approx. 29.0	after 7 days
Water absorption W24	mm	0	
Depth of water penetration	mm	0	

Product Characteristics for Oxal DS-HS

Storage	Can be stored in original unopened packs for at least 6 months.
Form of Delivery	25 kg sack 1 palette (40 sacks with 25 kg each)
Disposal	Please empty the packs completely! For this, please refer to our “Disposal concept for emptied transportation-and sale-packaging“.

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 02/09. 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.