

Oxal VP III HS

Grouting- and injection glue highly sulphate-resistant and without limestone powder

Product Properties

- One-component
- Binder with high sulphate resistance according to EN 197 part 1
- Low active alkali content
- Optimized shrinkage
- Re-alkalizing
- Chloride-free
- Long application time
- Does not contain any limestone powder

Areas of Application

- Grouting of cracks in masonry, concrete and rocks
- Filling of all types of cavities
- Force-fit stabilizing filling of cracks, joints and cavities in dry and damp conditions in civil engineering and engineering construction

Application

Preparative measures

Prior to injection the structure, respectively the leaking areas have to be inspected according to technical standards and regulations and an injection concept is to be prepared.

Substrate preparation

The edges of all cracks and cavities to be filled must be clean and free from all loose particles, dust, oil and any other contaminants. Contaminants are to be removed by dry, oil-free compressed air-cleaning.

Mixing

Oxal VP III HS is added to the prepared water under constant stirring and mixed until homogeneous and lump-free. Pan mixers or forced action mixers (e.g. double mixers) must be used for mixing. Mixing by hand and preparation of partial quantities is not permitted.

Mixing takes at least 3 minutes. Following mixing

the suspension must be kept in constant motion, e.g. by slow stirring or pumping. Already setting material must not be re-mixed with water or fresh binder.

Mixing ratio

Please see "Technical Data" table. For a 20 kg bag of Oxal VP III HS approx. 7 litres of water are required. As with other cement-bound products the quantity of added water may vary.

The outcome of a 20 kg bag mixed with water is approx. 15 litres of grouting- and injection glue.

Injection

See leaflet "General Application Advice Oxal". Injection/grouting of cavities is carried out using the injection pump MC-I 910 (1-component membrane pump) or worm pumps with low pressure (max. 5 bar).

Packers without flow resistance or injection hoses are recommended for injection.



Technical Data for Oxal VP III HS

Characteristic	Unit	Value*	Comments
Fresh mortar density	kg/dm ³	1,7	
Flexural tensile- / compressive strength	N/mm ²	5.0 / 14 5.1 / 25 6.0 / 30	at + 20 °C after 1 day at + 20 °C after 7 days at + 20 °C after 28 days
Water-solid content		0.35	
Time of efflux	seconds	approx. 99	DIN EN 14117
Change in volume	%	0.0	DIN 4227 T5
Application time	minutes	approx. 60	at + 20 °C provided constant stirring and pumping
Application conditions	°C	≥ 5 - ≤ 30	air-/material-/substrate temperature
Mixing ratio	kg : l	20 : 7	Oxal VP III HS : water

Product Characteristics for Oxal VP III HS

Colour	grey
Cleaning agent	water
Spreading rate	approx. 15 litres per bag
Delivery	20 kg bags
Storage	Can be stored in cool and dry conditions for 12 months in originally sealed packs.
Disposal	Packs must be emptied completely.

* All technical values are lab values and have been determined with a water-solid content of 0.43.

Coverage rates depend on condition and temperature of the substrate as well as storage- and application temperature. To determine project-specific coverage rates we recommend applying a trial area.

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 11/17. 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.