Oxal VP I T flow

Highly flowable grouting- and injection glue

Product Properties

- One-component
- Adapted to natural stone masonry in terms of construction physics
- Low-shrinkage, chloride-free
- Very low E-modulus
- Very good flowability, low-viscosity, suitable for pumping
- Strength equivalent to mortar class M 15 according to EN 998 part 2
- Binder with high sulphate resistance according to EN 197 part 1

Areas of Application

- Force-fit stabilizing filling of cracks, joints and cavities in dry and damp conditions in civil engineering and engineering construction
- Backfilling, injection and grouting measures
- Stabilization of natural stone, mixed and multi-layered masonry non-permanently saturated with water

Application Notes

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 I T flow 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 30 kg bag of Oxal VP I T flow approx. 12 to 13 litres of water are required. As with other cement-bound products the quantity of added water may vary.

The outcome of a 30 kg bag mixed with water is approx. 23 litres of grouting- and injection suspension.

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.

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Technical Data for Oxal VP I T flow

Characteristic	Unit	Value*	Remarks
Fresh mortar density	kg/dm³	1.89	
Flexural tensile- / compressive strength	N/mm²	2.6 / 12 3.3 / 16	at + 20 °C after 7 days at + 20 °C after 28 days
Dynamic E-modulus	N/mm²	9,600	after 28 days
Water-solid content		0.40 - 0.43	
Time of efflux	seconds	approx. 139	DIN EN 14117
Change in volume	%	+ 0.9	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	p.b.w.	30 : 12 - 13	Oxal VP I T flow: water

Product Characteristics for Oxal VP I T flow

Colour	grey
Cleaning agent	water
Spreading rate	approx. 23 l per bag
Delivery	30 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.

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.

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