

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 ADVICE

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.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	kg/l	30 : 12 - 13	powder component : water
Density	kg/dm ³	approx. 1.8	
Flexural strength	N/mm ²		at 20° C and 50 % rel. humidity
7 d		2.6	
28 d		3.3	
Working time ¹⁾	minutes	approx. 60	at 20° C
Application conditions	°C	≥ 5 ≤ 30	
Compressive strength	N/mm ²		at 20° C and 50 % rel. humidity
7 d		12	
28 d		16	
E-modulus (dynamic)	N/mm ²	9,600	after 28 days
Water/solids ratio		0.4 - 0.43	
Slump flow time	seconds	approx. 139	EN 14117
Volume change (increase)	%	0.9	DIN 4227 T5

1) under the condition of steady stirring or pumping motion

Colour	grey
Equipment cleaning agent	water
Form	pulverous
Calculated yield	approx. 23 l per container
Delivery form	30 kg bag
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
Packaging disposal	Make sure single-use containers are completely empty.

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300018336]