

Oxal SM TK 5

Sprayed joint mortar for natural stone restoration



PRODUCT PROPERTIES

- One-component
- Application by hand and dry spraying technique
- Low-shrinkage, chloride-free
- Low E-modulus
- High sulphate resistance
- Excellent adhesion to edges
- Available in various colours
- Structurally adapted to natural stone masonry
- Strength analogue to mortar class M 5 according to EN 998 part 2
- Registered with DGNG (Code: 9G6K52)

AREAS OF APPLICATION

- Jointing of natural stone masonry
- Filling of joints with a depth of approx. 15 mm and more
- Especially suitable for masonry with high sulphate content (e.g. gypsum-containing masonry)
- Suitable for building and repair of natural stone-, clinker- and brick masonry

APPLICATION ADVICE

Substrate preparation: All joints to be filled must be clean and free from all loose particles, dust, oil and any other contaminants. Any contamination must be removed prior to application, e.g. by washing out or with suitable abrasives. The joint edges must be pre-wetted thoroughly. The stone temperature must be observed.

Mixing: Oxal SM TK 5 is added to the prepared water under constant stirring and mixed until a homogeneous and lump-free mortar is achieved. Forced action mixers or slowly rotating double mixers must be used for mixing. Mixing by hand and preparation of partial quantities is not permitted. Mixing takes 3 minutes.

Mixing ratio: Please see "Technical Data" table. For a 25 kg bag of Oxal SM TK 5 approx. 3.8 to 4.1 litres of water are required. As with other cement-bound products the quantity of added water may vary. The outcome of a 25 kg bag mixed with water is approx. 13.5 litres of joint mortar.

Application: Oxal SM TK 5 can be applied by hand or dry spraying. Standard dry spraying machines with rotor pump are advised for spray application. The water consumption at the nozzle head is to be adjusted, that a homogeneous and dust-free spray mortar is applied. The spray angle between nozzle and substrate must be 90°. The distance between spray nozzle and substrate should be at least 0.5 m. The sprayed joint mortar may remain spray-rough or finished after spraying.

Please see leaflet "General Application Advice Dry Spray Mortar" for details on machinery, compressor, rebound behaviour, auxiliary formwork and application conditions.

Curing: Oxal SM TK 5 must be prevented from drying out too rapidly and protected from direct sun and wind exposure.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Maximum grain size	mm	4	
Mixing ratio	kg/l	25 : 3.8 - 4.1	powder component : water
Working time	minutes	approx. 60	at 20 °C
Application conditions	°C	≥ 5 ≤ 30	Temperatura del aire, soporte y material
Flexural strength	N/mm ²		
28 d		2.5	
Compressive strength	N/mm ²		
28 d		8.5	
Fresh mortar bulk density	kg/dm ³	approx. 2.1	
Colour		grey, other colours on request	
Delivery form		25 kg bag	
Calculated yield		approx. 13.5 l per 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.	
GISCODE : ZP1			

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. [2400021004]