Oxal TKM-HS

Highly sulphate resistant masonry mortar based on trass-lime

Product Properties

- One-component
- Tricalcium aluminate-free binder, low active alkali content
- Hand application
- Resistant to efflorescence and staining
- Open to water vapour diffusion
- Strength analogue to mortar class M 5 according to EN 998 part 2

Areas of Application

- Universal masonry-, render- and thin-bed mortar for natural stone
- Especially suitable for masonry with high sulphate content (e.g. gypsum-containing masonry)
- Suitable for interior and exterior use at new and old buildings
- Suitable for restoration of historical and heritage buildings

Application

Substrate preparation
Prior to application of Oxal TKM-HS the substrate must be testet for load-bearing capability. The substrate 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 substrate must be pre-wetted thoroughly. The stone temperature must be observed.

Mixing
Oxal TKM-HS is added to the prepared water under constant stirring and mixed until a homogeneous and lump-free mortar 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. Depending on the desired consistency for a 25 kg bag of Oxal TKM-HS a different mixing ratio is required. Approx. 3.4 to 3.6 litres of water are required as a masonry mortar. Approx. 3.75 to 3.9 litres of water are required as a plaster. 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. 15.5 litres of masonry mortar.

Application
Oxal TKM-HS may be applied by hand using a trowel or a float.

Curing
Oxal TKM-HS must be prevented from drying out too rapidly and protected from direct sun and wind exposure.

MC-Bauchemie • Am Kruppwald 1-8 • 46238 Bottrop • Tel. +49 (0) 2041-101 50 • Fax: +49 (0) 2041-101 588
info@mc-bauchemie.de • www.mc-bauchemie.de

Technical Data for Oxal TKM-HS

Characteristic	Unit	Value*	Comments
Largest grain size	mm	4	
Fresh mortar density	kg/dm³	approx. 2.0	
Compressive strength	N/mm²	approx. 5	after 28 days
Coverage	kg/m²/mm	1.8 - 2.0	
Application time	hours	approx. 2	at + 20 °C
Layer thickness	mm	25	max. total layer thickness
Application conditions	°C	+ 5 to + 30	air-/material-/substrate temperature
Mixing ratio as masonry mortar as plaster	 kg : l kg : l	 25 : 3.4 - 3.6 25 : 3.75 - 3.9	 Oxal TKM-HS : water Oxal TKM-HS : water

Product Characteristics for Oxal TKM-HS

Colour	grey
Spreading rate	approx. 15.5 l per bag
Delivery	25 kg bags
Storage	Can be stored in cool and dry conditions for at least 12 months in originally sealed packs.
Disposal	Packs must be emptied completely.

* All technical values are lab values and have been determined at + 23 °C and 50 % relative humidity.

Edition 10/18. 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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