



MC-Proof 101 HS

Sulphate resistant sealing slurry

Product Properties

- One-component
- Highly sulphate resistant
- Impermeable to water against positive and negative pressure
- Resistant to alkali and frost
- Easy application
- Proof of suitability as internal sealing after WTA-leaflet 4-6

Areas of Application

- Subsequent structural sealing from the inside against backward moisture
- Waterproofing basis for Nafuflex bituminous thick coatings on damp substrates
- Waterproofing of damp and saline masonry
- Waterproofing of wall bases exposed to splash water (splash water zone)
- Sealing slurry against backward moisture for sealings of buildings in contact with soil

Application

Substrate preparation

Prior to application of the sealing slurry the substrate must be checked for load-bearing capacity and absence of frost. The substrate must be clean and free from all loose particles, dust, old coatings, slurries, bitumen and any other contaminants.

Porous and sanding masonry joints must be reamed out at least 1 cm deep. Afterwards the masonry must be cleaned thoroughly using a steel broom/brush or oil-free compressed air. Following cleaning the joints are to be filled with Oxal RM-L.

Dry or highly absorbent substrates must be pre-wetted thoroughly.

In case of full-surface interior sealing, moisture infiltration into inner walls must be avoided. The moisture transport must be sealed by injection of MC-Injekt GL-95 TR into the junction between outer and inner wall.

Covings must be formed at all interior corners (e.g. connection floor/wall) using Oxal RM-L. The coving mortar must be completely dry prior to application of the first sealing layer.

Mixing

MC-Proof 101 HS is added to the prepared water under constant stirring and mixed until a homogeneous and lump-free slurry is achieved. Slowly rotating mixers must be used for mixing. Mixing by hand and preparation of partial quantities or addition of water is not permitted. Mixing takes at least 3 minutes.

Application

MC-Proof 101 HS is generally applied in at least two layers. The first layer is applied in excess and imperviously using a brush. Especially corners and crushed edges must be coated thoroughly. The second layer and any following layer may be applied using a brush or a float. The layer below must be hardened and bear sufficient load capacity, to not get damaged by application of the following layer.

Salts on the surface must be removed mechanically prior to application of the next layer, e.g. using a broom.

An open worm pump with variably adjustable discharge flow is advised for spray application. Please request our special advice.

During application the material must be protected against pressurized water and direct sun exposure.

Curing

MC-Proof 101 HS must be protected from drying out too quickly due to high temperatures and against direct sun and wind exposure over the entire curing phase. In exterior areas the fresh sealing slurry must also be protected against rain and frost.

Note

WTA leaflet 4-6-14/D and the „Guideline for planning and execution of waterproofing with mineral sealing slurries“ are to be observed.



Technical Data for MC-Proof 101 HS

Characteristic	Unit	Value*	Comments
Fresh mortar density	kg/dm ³	approx. 2.0	
Coverage (dry mortar)	kg/m ² /mm	1.7	
Application time	minutes	approx. 60	at + 20 °C
Overcoating time	hours	approx. 3	between separate layers
Flexural tensile-/ compressive strength	N/mm ²	6.0 / 29	after 7 days
Waiting times	hours days	12 5	resistant to foot traffic time until full resistance
Layer thickness (wet layer thickness)	mm mm	3 3.5	soil moisture and non-pressurized water (≥ 2.5 mm dry layer thickness) pressurized water (≥ 3.5 mm dry layer thickness)
Application conditions	°C	+ 5 to + 30	air-/material-/substrate temperature
Temperature resistance	°C	- 20 to + 70	
Mixing ratio	kg : l	25 : 4.8 - 5.2	MC-Proof 101 HS : water

Product Characteristics for MC-Proof 101 HS

Delivery	25 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 have been determined in the lab at + 23 °C and 50 % relative humidity.

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 12/18. 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.