

Maleki-SM 735

Design smoothing mortar

Item-No.: 1515

Innovative and environmentally friendly smoothing mortar. Hardens fast and shrinkage-free with a layer thickness up to 30 mm.



Technical data

Mixing ratio	7.25 – 7.5 l water per 25 kg powder	Color	White
Strength		Density	
Compressive strength	approx. 8 N/mm ²	Bulk density	approx. 1.1 kg/dm ³
Flexural strength	approx. 3 N/mm ²	Fresh mortar density	approx. 2.0 kg/dm ³
Processing temperature	Min. +5 °C, max. +35 °C	Processing time	approx. 30 min
Application thickness	Up to 30 mm	Consumption	ca. 1.0 kg / m ² and mm layer thickness
Loadability	Curing at 20°C	Covering	
Light load	1 day	Paint and wallpaper	1 day
Normal use	4 days	Synthetic resin plaster	1 day
Fully loadable*	7 days		

* Outdoor application, including non-permanent exposure to water in indoor areas.

Properties

- Eco-Binder technology
- environmentally friendly
- very low emission EC 1^{PLUS}
- fast curing and shrinkage-free
- resistant against salt water and chemicals
- polymer-modified
- grindable
- easy application

Range of usage

- for indoor and outdoor use
- for smoothing work on wall and ceiling surfaces and facades
- for application as decorative wall coating
- applicable in layer thicknesses up to 30 mm

Preparation of substrate

Prior to coating, ensure that the surface is stable and has sufficient surface tensile strength. The surface should also be ready for coating, dry or matt damp, clean and free from all kinds of debris. Deeper ruptures must be filled with Maleki-RM 500. The surface should be permanently vibration-free and crack-free. Already existing cracks must be repaired professionally. The surface has to be dried for 2 hours after priming with Maleki-TG 110.

By priming the surface, the absorbency of the substrate is adjusted. This avoids rising of air bubbles during the subsequent coating. In order to guarantee this on critical undergrounds, apply a further layer of primer if necessary.

Please refer to the technical data sheet of Maleki-TG 110 for more information.

Mixing and application

Mix the material by using a mixing machine. First, add 7.25 – 7.5 liters of water per 25 kg powder material into the mixing container. Then, pour Maleki-SM 735 inside while stirring. For manual applications the hand-held mixer BSM 2882 by Baier Tools and the Collomix mixing paddle KR 140 HF are recommended. By using the respective mixing paddle, a proper thread adapter must be used. For mixing of partial quantities in smaller containers the mixing paddle KR 90 S for drilling machines is recommended. The material has to be mixed intensely for 2 minutes, left to set for 2 minutes, and then mixed again for 1 more minute. Mix only as much material as can be applied within 30 minutes. After mixing, apply Maleki-SM 735 to the intended thickness.

The surface has to be protected from too quick drying (solar radiation, draft) for the 1st 24 hours. Do not cover the finished surface with foils or other materials.

Crack-sensitive substrates and dry construction

For crack-sensitive substrates or for the use in wood and drywall construction insert suitable fabric tapes or reinforcement fabrics during application of Maleki-SM 735.

In case of flat installations of reinforcements fabrics Maleki-SM 735 is mixed in a suitable consistency. The material is applied on the primed surface with a toothed trowel. Insert the reinforcement fabric into the fresh mortar by pressing with a trowel. The mesh surface is pressed into the mortar bed from inside to outside. Smoothen all mortar residues which get pressed through the mesh. For complete covering of the reinforcement fabric a second layer of Maleki-SM 735 is applied wet-in-wet. The edges of all mesh panels must overlap by about

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10 cm. For filling work on drywalls all joints are filled and smoothed with Maleki-SM 735. Afterwards the respective fabric tape is positioned above the joint and smoothed with a trowel. For complete covering of the fabric tape a second layer of Maleki-SM 735 is applied wet-in-wet.

After sufficient curing of Maleki-SM 735 the surface is ready for grinding. Apply a further layer of mortar if necessary.

The coating has to be protected from too quick drying (solar radiation, draft) for the 1st 24 hours. Do not cover the finished surface with foils or other materials.

Indoors, the coating can be loaded normally after 4 days. After 7 days, the surface can be fully loaded both indoors and outdoors (see table).

Pigmented mortar

The respective pigment is added to the mixing water in the desired dosage (see table below). The pigment has to be mixed intensively for 1 minute.

To ensure a uniform color distribution use constant amounts of water as stated in the table.

Prior to application of the mortar the coloring and the desired visual appearance should be checked on a separate test area.

It is recommended to use Maleki-Pigments for application of IFS-products. For other pigments and preparations no certain appearance or quality can be guaranteed.

The usability of each pigment and the suitability for the desired finish have to be clarified with the customer service in advance.

For more information on the approximate appearance of the mortar with selected Maleki-Pigments, please refer to the associated "Lithokor Color Chart".

Pigment	Max. dosage per 25 kg powder
Maleki liquid pigments (black)	100 g
Maleki liquid pigments (other colors)	500 g
Maleki powder pigments (black)	150 g
Other pigments (Oxide basis)	500 g

Post-processing and coating protection

For the use of Maleki-SM 735 as a final coat it is recommended to apply a suitable surface protection system. To achieve a higher abrasion resistance or chemical resistance we recommend a combined application of Maleki-DW 100 and Maleki-LL 100. For a complete sealing we recommend the use of Maleki-VS 910. Please refer to the respective data sheets for more information.

Tools and cleaning

Hand-held mixer, stirrer, toothed trowel, trowel.

All equipment should be washed clean and dried before and after application.

Packaging and shelf-life

25 kg paper bag

Original packing is storable for 12 months in dry and controlled

temperate areas (not below 0 °C, recommended 10 – 25 °C). Reseal opened containers immediately and use within a very short time.

Associated products

Maleki-RM 500	Item-No. 1416
Maleki-TG 110	Item-No. 1110
Maleki-SM 735	Item-No. 1515
Maleki-DW 100	Item-No. 1815
Maleki-LL 100	Item-No. 1810
Maleki-VS 910	Item-No. 1811

Safety notes

There is no mandatory hazard labeling for Maleki-SM 735. Avoid inhaling dust when opening packaging. Protect skin and eyes during the mixing process.

Please refer to the Material Safety Data Sheet which can be requested on www.malekigmbh.com for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

Relevant regulations and fact sheets

When applying Maleki-SM 735 the following regulations and fact sheets must generally be observed, unless otherwise specified in this technical data sheet:

General

DIN 18202:2019-07

Tolerances in building construction – Buildings

DIN EN 13963:2014-09

Jointing materials for gypsum boards – Definitions, requirements and test methods

DIN 18534 (Standards series)

Waterproofing for indoor applications

DIN 18550 (Standards series)

Design, preparation and application of external rendering and internal plastering

Federal Association of the Gypsum Industry¹

Fact Sheets No. 2 and 2.1 – Industry Group gypsum boards.

Filling of gypsum boards / gypsum fiber boards – Surface finishes.

Fact Sheets No. 5 – Industry Group gypsum boards.

Bathrooms, damp and wet rooms in wood and drywall construction.

Fact Sheets No. 6 – Industry Group gypsum boards.

Pre-treatment of drywall surfaces made of gypsum boards for further surface coating or covering.

Fact Sheets No. 3 – Industry group gypsum for construction.

Plaster surfaces in the interior – Quality levels.

¹ Maleki-SM 735 is not a gypsum-based material, however, the stated fact sheets of the Federal Association of the Gypsum Industry (Bundesverband der Gipsindustrie) provide a guideline for the application of fine mortars and smoothing compounds in decorative areas.

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Fact Sheets No. 4 – Industry group gypsum for construction.
Thin-layer plaster in the interior.

Association for insulation systems, plaster and mortar e.V. (VDPM)

Guidelines for plastering masonry and concrete – Basics for
planning, design and application.

Maleki fact sheets

Lithokor Color Chart

Notes

Some minor color differences are inevitable due to different production batches. This should be taken into account while performing work. It is necessary to work on designated sections with the same batch (see label) if a uniform color is desired. Please take note that this coating is a mineral/inorganic product. Product colors are not fully conformed to the RAL-Map and therefore they should only be seen as estimated classifications.

The content of this technical data sheet corresponds to the latest development and our applications experience. All information is based on ideal conditions and therefore does not apply for every application purpose. Due to different materials, substrates and different actual site conditions no warranty is given for the customer's application. In particular, we assume no liability based on this information or any verbal statements. The only exception is when we can be blamed for the case of intent or gross negligence. In that case the customer has to prove that he has transmitted all required information completely and in a timely manner for a proper and promising evaluation by Maleki GmbH. Any further details regarding the application of our products have to be confirmed in writing by Maleki GmbH. The customer must test the product's suitability for the intended application and purpose. We reserve the right to change the product specifications due to the ongoing development. Apart from that our general terms and conditions are valid. This data sheet supersedes all earlier technical data on this product. The technical data sheet can be requested on www.malekigmbh.com.