

Maleki-TG 110

Primer

Item-No.: 1110

Solvent-free primer to reduce the absorbency of mineral substrates.



Technical data

Basis	aqueous dispersion	Density	approx. 1 kg/L
Organic solvents	none	Color	milky white
pH-value	8 – 9	Drying time	approx. 2 h at 20°C / 50% RH*
Processing temperature	min. +5 °C max. +35 °C	Consumption and application	Application in 1 – 2 layers (depending on substrate)
Substrate	Concrete / screed**	150 – 200 g per m ²	
	Masonry / render / Maleki-RM 500	100 – 200 g per m ²	
	Self-leveling compounds / flowing screed / pouring mortar (Maleki-BV, FEC, VM, DFS/IFS-products)	100 – 150 g per m ²	

* = Higher temperatures shorten, lower temperatures extend the time specified

** = Does not apply to mastic asphalt screed.

Properties

- environmentally friendly
- very low emission EMICODE EC 1^{PLUS}
- water vapor permeable
- increases the strength of porous substrates
- reduces the capillary absorbency of the substrate
- improves the adhesion on the substrate
- dust-binding
- prevents bubble formation in subsequent coatings

Range of usage

- for indoor and outdoor use
- for preparation of mineral substrates like concrete, screed, plaster, sand-lime bricks, gypsum fiberboards, etc.
- for the subsequent processing of floor coatings (Maleki-DFS/IFS product line), self-leveling compounds (Maleki-BV 310) and flowing screed (Maleki-FEC 370), mineral adhesives and fillers
- suitable for use in food processing companies
- as an impervious layer for subsequent thin film coverings on absorbent and mineral substrates.
- temporary drying brake on fresh concrete
- temporary impregnation
- as a wallpaper underground.

Product systems

- Industrial Flooring System
- Agriculture
- Maleki-CP OS 8 (Car park coating)
- Lithokor Design floor

- Lithokor Terrazzo
- Acid protection
- General use: Primer for Maleki products

Preparation of substrate

General information

In principle, Maleki-TG 110 may only be applied to absorbent substrates. 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. Depending on the desired layer structure, mechanical surface preparation e.g. shot-blasting is recommended. Due to roughening the surface, the adhesion for the subsequent layer can be improved. The surface should be dry before application of the primer. The application of the primer has to be done at least 2 hours before the subsequent coating. The coating work on the primer with Maleki-BV or IFS-products should be finished within 6 hours.

Leveling work

In case of previous leveling work with Maleki-BV 310 or Maleki-FEC 370, the respective mortar has to cure at least 24 hours before the substrate can be primed with Maleki-TG 110. All stated waiting times depend on the respective ambient conditions and the application thickness of the leveling layer used. The following conditions can lead to an extension of the stated waiting times:

- Low temperatures, especially below 10°C
- Permanently high relative humidity
- Installation of leveling layer in high layer thickness above 10 mm

The mortar surface should not have any visible damp spots and should have a firm surface.

Application

General information

Apply Maleki-TG 110 once or twice. Thereby the tools which shall be used and the amount of applied material must be adapted to the respective application. If a second coat is necessary due to the absorbency of the substrate, the waiting time between the applications is based on the condition of the substrate, the respective ambient conditions and the chosen amount of material. 30 minutes can be set as a guideline.

After finishing the first or rather the last application the primed substrate must be checked after the specified waiting time (see table) for sufficient film formation and covering of the surface. To do this, the surface must be walkable and no longer appear sticky on contact with hands or shoes. For the test, the surface is loaded with several water drops in various places. After 10 minutes it has to be checked whether the applied amount of water was absorbed by the substrate or not. With sufficient priming of the surface, the water drops should be stable after the waiting time. If there is a visible reduction of water, a further layer of primer is necessary. Should the water turn white in cold conditions, then a longer waiting time must be observed until the subsequent coating can be applied. This can be particularly important in very cold conditions below 10°C and/or with high relative humidity.

Concrete and screed

For applications on large and even floors, which have a high absorbency, the flooding procedure is recommended for fast and effective priming of the substrate. Therefore, Maleki-TG 110 is poured out in strips followed by distribution with a rubber squeegee. Afterwards roll the surface with a short fiber paint roller to absorb and to distribute excess material. Avoid puddles. Use a suitable brush to remove excess material in existing holes or ruptures. Depending on the depth of the respective gaps, it is recommended to fill all existing cavities with Maleki-VM 530 to create an even surface for the subsequent coating.

If the surface to be primed is very rough and uneven overall, it is recommended to apply the primer with a long fiber paint roller to avoid excess and puddle formation.

Self-leveling compounds

When working on fine-pored materials like Maleki-BV 310, Maleki-FEC 370 or products of the DFS/IFS product line, it is recommended to apply with a short fiber paint roller to avoid excess of the material. The consumption quantities for self-leveling compounds must be observed (see table). In case of priming Maleki-BV 310 or Maleki-FEC 370 all instructions regarding the substrate preparation must be observed.

Mastic asphalt screed

On new mastic asphalt surfaces, the adhesion of aqueous materials can be severely impaired by oily smear films. For this reason, the suitability of each surface must always be checked on a case-by-case basis. This must be agreed with customer service.

In general, only older, non-oily surfaces should be treated. The absorbency of the surface should be checked with the described water test. Depending on the result, the substrate can then be slightly pre-wetted for a subsequent coating, if

necessary. In general, Maleki-TG 110 must not be used as a primer for the coating.

Wall applications – Masonry, render and Maleki-RM 500

In case of wall applications use a long fiber paint roller for distribution of Maleki-TG 110. Possible existing ruptures can be filled with Maleki-RM 500.

Notes

Surfaces which were filled with Maleki-RM 500 or Maleki-VM 530 must be primed to adjust the surface absorbency. Please refer to the respective technical data sheets for more information about the listed products.

Tools and cleaning

Brush, short fiber paint roller, long fiber paint roller, rubber squeegee, spraying device.

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

Packaging and shelf-life

5 or 30 liter canisters. Container available on request.

Original packing is storable for 9 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.

Safety notes

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.

Notes

Prior to further processing please check sufficient film formation.

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.