

Maleki-VS 930

Two-component PU flooring sealer

Item-No.: 1828

Transparent, abrasion resistant sealer for industrial floors with high stain protection.

Technical data

Basis	Aqueous dispersion (Component A) hardener component (Component B)	Mixing ratio	5 : 2 Comp. A : Comp. B
Pot life	60 minutes	Processing temperature	min. +10 °C max. +35 °C
		Maximum permitted humidity	max. 85 % rel. H.
Necessary number of applications	1 - 2 coats depending on substrate and requirements (see text and table below)	Waiting time between applications at 20°C / 65 % rel. H.	12 hours
Loadability	Film formation at 20°C*	Consumption (ready-to-use mixture)	
Walkable	12 hours	1. Coat	Approx. 150 – 200 g/m ²
Light load	1 day	2. Coat (optional)	Approx. 100 – 150 g/m ²
Normal use	3 days	Total quantity for 2 coats	Up to 300 g/m ²
Fully loadable	7 days		

* In the case of low temperatures below 20°C and increased humidity, the drying time of the material is extended.

Properties

- environmentally friendly
- VOC – and APEO-free
- water vapor permeable
- prevents from penetrating liquids and dirt
- closes pores of the substrate
- increases the strength of porous substrates
- reduces abrasion
- increases the chemical and acid resistance of the substrate

Range of usage

- for indoor and outdoor use
- sealing of absorbent and sandy substrates in production areas and warehouses
- sealing and protection of previously created floor areas with products of the Maleki-DFS/IFS or BV lines
- suitable for use in food processing companies
- protection against salt water and aggressive chemicals

Produktsysteme

- Industrial Flooring System
- Lithokor Design floor
- General use: Two-component sealer for Maleki products

Preparation of substrate

Prior to application ensure that the underground is dry, dust-free, clean, and free from other substances that could lead to separation before coating. Chalking and strongly sandy components must be removed before application (suck off with efficient industrial vacuum cleaner). Remove render and/ or coatings. After all cleaning procedures use disposable shoe covers to avoid any type of dirt ingress.

Number of coats

Maleki-930 can be applied in one or two coats, depending on the substrate and application. The specified minimum consumption for the first or sole application should always be achieved to ensure adequate stain protection.

For self-leveling compounds or fine flowing screeds with a smooth surface like Maleki-BV 310, Maleki-FEC 370 or products of the DFS/IFS-product line a consumption quantity of approx. 150 - 200 g/m² should be used for the first application.

In general, a single application with the specified consumption quantity is sufficient for simple load scenarios. For increased requirements due to mechanical or chemical loads or for even better stain protection, a second application with Maleki-VS 930 is necessary. This applies to both decorative and industrial surfaces (see table below). The need for a one- or two-coat application must be clarified in advance with customer service. Any imperfections or visual impairments that occur after a single-layer application can also be corrected with a second layer.

For the use of Maleki-VS 930 on concrete and screed surfaces, a two-layer application may generally be necessary, depending on

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the condition of the substrate, due to the higher absorbency of the substrate, in order to achieve complete coverage of the substrate with good stain protection.

Substrate	Application scenario	Number of coats
Concrete and screed	Normal requirements: Simple floors	1
	Increased requirements: Floors with increased mech. or chem. load. Surfaces with high absorbency.	2
Self-leveling compounds / flowing screed	Normal requirements: Simple floors, decorative floors	1
	Increased requirements: Maximum stain protection on decorative floors, high mech. or chem. load on industrial floors	2

Application

General information

To prepare the ready-to-use material, component A (polymer) is first transferred to a clean mixing container. Afterwards component B has to be added while stirring and mixed for 3 minutes. We recommend using the Collomix LX 90 S stirrer for drills to prepare one or more 7 kg combined containers. For larger quantities of 15 kg or more we recommend the larger version LX 120 S (up to 25 kg). For the LX 120 S variant, the drill chuck used must have a minimum size of 13 mm.

At the end of the mixing time, the material appears thicker than at the beginning. For this reason, the material must be left to set for 10 minutes and then mixed for a further minute at low speed. Afterwards Maleki-VS 930 is applied striation free with a short fiber paint roller. For optimum results, only new paint rollers should be used. Before using a new paint roller all loose fibers have to be removed. To do this, rinse the paint roller with clear water. After a waiting time of 12 hours a second coat of Maleki-VS 930 can optionally be applied if the surface is dry and walkable.

For applications in the range of the specified minimum temperature and/or the maximum relative humidity, the respective waiting times between applications may increase up to 24 hours.

The exact drying or waiting times depend on the substrate conditions, the ambient temperature and on the relative humidity. Before application of additional layers observe sufficient filming formation of the product.

Ensure also the use of shoe covers at this stage to avoid any type of pollution of previously dried surfaces. Existing footprints are difficult to remove and affect the optimal appearance of the

whole coating. On highly absorbent substrates or heavily stressed areas four layers of Maleki-VS 930 are recommended. Within the first 7 days long-term water load should be removed immediately. Thereafter, the surface is resistant to permanent water load, beverages, oil and fats. Scratches in the surface caused by mechanical abrasion can be repaired with a new layer of sealer.

Tools and cleaning

Mixing container, stirrer, short fiber paint roller

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

Maintenance and care

Conserving all properties and the respective gloss level of Maleki-VS 930 the surfaces must be cleaned and cared for regularly. Sand or coarse particles are grinding materials and have to be removed during the normal cleaning procedures. Despite the protective function of the product long lasting loads with harmful liquids should be avoided to prevent staining of the coating. Durable and strong mechanical stress on the substrate (for example heavy machinery) can damage the coating. In this case, we recommend a post-treatment of the damaged area with Maleki-VS 930. For this purpose, the surface is first cleaned with "Wischplege SP" from company MKS Funke.

In case of larger areas or for a high degree of staining or pollution the use of mechanical cleaning procedures is recommended. More detailed information on cleaning the respective surfaces can be found in the current "Cleaning and care instructions for floor products".

For recoating, the surface should be free of cleaning agent residues and already dried.

Packaging and shelf-life

7 kg combined container which includes 5 kg of Component A (polymer) and 2 kg of Component B (hardener).

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

Component A: None

Component B: May cause allergic reactions and respiratory irritation. Sufficient ventilation during application has to be ensured. Maleki-VS 930 is harmless after hardening.

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-VS 930 and subsequently reworking it with other coverings, the following regulations and fact sheets must generally be observed, unless otherwise specified in this technical data sheet:

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Maleki data sheets

Lithokor Installation Manual for design floors

System Installation Manual – Industrial Flooring System

Cleaning and care instruction for floor products

Notes

Because of the different absorbency of various substrates, we recommend a test application on a sample area.

Impurities have to be washed off immediately with water. All tools should be cleaned between applications.

After exceeding the pot life the consistency and the characteristics of the material may change. Therefore, any unused material has to be disposed.

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.