

Maleki-VS 930

Two-component industrial flooring sealant

Item-No.: 1828

Abrasion resistant sealant for industrial floors with high surface strength. Increases the chemical resistance of the substrate.

Technical data

Basis	Aqueous dispersion (Component A) hardener component (Component B)	Mixing ratio	2 : 5 : 5 Hardener : Polymer : Water
Pot life	60 minutes	Processing temperature	min. +10 °C max. +35 °C
		Maximum permitted humidity	max. 85 % rel. H.
Necessary number of applications		Waiting time between applications at 20°C / 65 % rel. H.	Min. 15 – 45 min (depending on layer)
Design floors	3 applications		
Industrial floors	2 applications		
Loadability	Film formation at 20°C	Consumption (ready-to-use mixture)	Approx. 150 – 300 g/m ² depending on underground conditions and absorbency
Walkable	12 hours		
Light load	3 days		
Fully loadable	7 days		

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.

Application

General information

For application following steps should be performed: First Component A (polymer) is diluted with water in a ratio of 1:1 (5kg Component A and 5kg water). Then Component B (hardener) is added to the premixed dilution (2kg Component B and 10kg Component A dilution). Component B has to be added while stirring and mixed for 3 minutes. For better mixing use a dissolver disc. To avoid mixing problems transfer the material to a new container after the first step and mix once again. A deaeration time of approx. 10 minutes has to be maintained between the end of the mixing time and the application of the material. This minimizes rising of air bubbles within the surface. Afterwards Maleki-VS 930 is applied striation free with a short fiber paint roller or by spraying application. For the application with new paint rollers all loose fibers have to be removed. Rinse the paint roller in clear water. In case of spraying applications, the spraying procedure has to be followed by the distribution of the material with a microfiber mop.

If air bubbles appear in the surface after a few minutes during the first application, the surface must be rolled off with a dry paint roller while still liquid. This will prevent the bubbles from being transferred to the next coats. The mentioned reworking can be carried out approx. 10 minutes after the start of the first application. After a waiting time of at least 15 minutes the next layer of Maleki-VS 930 can be applied if the surface is dry and walkable. The waiting time can raise up to 45 minutes during the further coating process.

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 2 – 3 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.

Self-leveling compounds

On fine-grained substrates like Maleki-BV 310 or products of the DFS / IFS product line the specified minimum consumption quantity must always be achieved to maintain adequate stain protection.

Due to the absorbency of the substrate, the applied quantity for the first coat should be higher than for the subsequent coatings to achieve a complete coverage of the substrate. In combination with Maleki-DW 100 the substrate must be completely dry before applying Maleki-VS 930. Depending on the prevailing ambient conditions, it may be necessary to wait 24 hours before applying the final coat of Maleki-VS 930.

Tools and cleaning

Short fiber paint roller, microfiber mop, spraying device.

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 "Wischpflege 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. For re-work with Maleki-VS 930 a spraying application is recommended. The spraying procedure is followed by a uniform distribution of the sealer with a microfiber mop up to the desired amount of liquid material. Depending on the degree of staining or pollution a second layer of Maleki-VS 930 may be required.

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.

Associated products

Maleki-DW 100	Item-No. 1815
Maleki-VS 930	Item-No. 1828

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:

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

Technical data sheet

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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.