

## Maleki-DW 100

### Silicate based impregnation

Item-No.: 1815

Innovative silicate sealant and subsoil consolidation protects against penetrating moisture and chemical stress.

### Technical data

<b>Basis</b>	Inorganic	<b>Density</b>	1.1 g/cm <sup>3</sup>
<b>pH-value</b>	11.4	<b>Color</b>	transparent
<b>Processing temperature</b>	min. +5 °C max. +55 °C	<b>Viscosity</b>	< 100 mPas
<b>Organic solvents</b>	none	<b>Consumption</b>	Depending on substrate
		Concrete / Screed	400 – 800 g per m <sup>2</sup>
		Self-leveling compounds	30 – 60 g per m <sup>2</sup>
<b>Maximum admitted air humidity</b>	max. 80 % r.H.	<b>Necessary number of applications:</b>	min. of 2 applications

### Properties

- Silicate-Technology
- environmentally friendly
- VOC – and APEO-free
- water vapor permeable
- solidifies the substrate und increases the chemical resistance
- reduces surface abrasion
- protection against penetrating water in case of cracking
- odorless
- protection against efflorescence

### Range of usage

- for indoor and outdoor use
- solidifies porous substrates
- permanent protection against ground water, salt water and strong chemical stress
- as sealant against penetrating moisture on walls
- Protection against carbonation
- for protection and restoration of drinking water reservoirs, sewage plants and wastewater pipes
- suitable for concrete, facades, walls, cellars, horizontal barriers, pipes and all cementitious substrates
- for factory-set protection of concrete products and parts
- applicable for subsequent paintings

### Preparation of substrate

The substrate has to be absorbent, free of dust, loose parts, oils, fats and other impurities. Chalk and sandy components must be removed before the solidification using an efficient industrial vacuum cleaner. Coatings and/or render should be stripped off. Concrete and other cementitious substrates must have a minimum age of at least 14 days.

### Application

#### Concrete and screed

Maleki-DW 100 is to be sprayed undiluted on substrates, or brushed/rolled on surfaces to cover all areas. Maleki-DW 100 should be applied at least twice (wet-on-wet). Every application has to penetrate completely into the substrate. On absorbent substrates like unpolished concrete or screed the application should be repeated until the substrate is saturated, with any surpluses cleaned up. The surface must be protected against rain and moisture for 24 hours after application.

Cover the freshly applied surface air-permeably. After 7 days, an air-tight cover is possible. In case of new concrete surfaces or other new cementitious materials the above-mentioned minimum age has to be observed. The recommended consumption volume should not be exceeded.

**Attention:** When Maleki-DW 100 is applied in combination with Maleki-LL 100, Maleki-DW 100 has to be applied first. After sufficient drying (surface should not be wet) the subsequent coating with Maleki-LL 100 has to be applied. For optimal results, both coatings have to be applied within one day. Furthermore it has to be attended that due to the combination of both products the treatment with Maleki-LL 100 has to be taken into account with the consumption of Maleki-DW 100. Depending on the substrate, an excess of one of these products could lead to an optical impairment of the surface. For further information about application of Maleki-LL 100 please refer to the technical data sheet of Maleki-LL 100.

#### Self-leveling compounds

On fine-grained and dense substrates like the self-leveling compounds of the IFS product line the surface has to be prewetted with clear water before application of Maleki-DW 100. The water is distributed with a microfiber mop. Following Maleki-DW 100 is applied wet in wet with a low-pressure sprayer, immediately distributed uniformly in one direction with a microfiber mop so that the complete surface is wetted with Maleki-DW 100. In order to ensure a uniform and stripe-free application prevent the microfiber mop from running dry.

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The formation of puddles and large supernatants should be avoided. Maleki-DW 100 has to be applied wet in wet in two thin layers to provide a sufficient protection. As soon as the last application with Maleki-DW 100 is completely dried (approx. 2 hours), the surface can be polished if required. Further information is available on request.

## Concrete protection

For factory-set protection of paving stones, concrete slabs and concrete parts Maleki-DW 100 can be used directly in the production process. Therefore use 2.0 – 2.5 liter in 1m<sup>3</sup> of an adjusted concrete formulation. To ensure an optimal distribution of the silicate ingredients, Maleki DW 100 is added to the mixing water. Please refer to the Maleki-SlagSil brochure for information about the adjustment of the concrete formulation and about the required amount of Maleki-DW 100. The brochure can be requested on [www.malekigmbh.com](http://www.malekigmbh.com).

## Tools and cleaning

Brush, wide brush, paint roller or 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 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.

## Safety notes


Maleki-DW 100 is an alkaline liquid.  
Please refer to the Material Safety Data Sheet which can be requested on [www.malekigmbh.com](http://www.malekigmbh.com) for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

## Notes

In case of decorative surfaces a small sample should be created on an uncritical position at least one day before application. Do not apply on non-absorbent surfaces. Please protect glasses, glass, tiles, clinker and similar from splashing material! Aluminum may not come in contact with the material. Impurities have to be washed off immediately with water. With each interruption of work the tools have to be cleaned.  
It is important to ensure that no Maleki-DW 100 reaches the surface prior to application. For example by dripping work tools or footwear under which Maleki-DW 100 has collected. Otherwise efflorescence can occur on pre-wetted areas. Also clean footwear should be worn during application to avoid contamination on fresh applied surface.

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](http://www.malekigmbh.com).

	
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15 No. 1815 EN	
<b>EN 1504-2:2004</b> <b>Surface protection product – Impregnation</b> <b>EN 1504-2: ZA.1b</b> Innovative silicate sealant and subsoil consolidation protects against penetrating moisture and chemical stress.	
Penetration depth	Class I: < 10 mm
Water absorption und alkaline resistance:	Absorption coefficient < 7,5% compared with untreated sample < 10% in alkaline solution
Chemical resistance:	No visible defects
Reaction to fire:	A1
Drying speed:	Class II: > 10 mm
Dangerous substances:	None