

## LAVASTONE® 190 PUS

### 02 Components

Abrasion resistant sealant for industrial floors with high surface strength and slide-protection.

### Technical data

<b>Basis</b>	Aqueous dispersion (Component A)	<b>Mixing ratio</b>	2 : 5 : 5	
	Hardener component (Component B)		Hardener : Polymer : Water	
<b>Pot life</b>	60 minutes	<b>Processing temperature</b>	min. +10 °C max. +35 °C	
			<b>Maximum permitted humidity</b>	max. 95 % rel. H.
<b>Necessary number of applications</b>	Design floors	<b>Waiting time between applications</b>	Min. 15 – 45 min (depending on layer)	
	Industrial floors			3 applications 2 applications
<b>Loadability</b>	Film formation at 20°C	<b>Consumption (ready-to-use mixture)</b>	Approx. 130 – 180 g/m <sup>2</sup> 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 use
- sealing of absorbent and sandy substrates in production areas and warehouses
- sealing and protection of previously created floor areas with products of the Lavastone – x00 series
- protection against salt water and aggressive chemicals

### 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

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. Then LAVASTONE® 190 PUS 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.

After a waiting time of at least 15 minutes the next layer of LAVASTONE® 190 PUS can be applied. The waiting time can raise up to 45 minutes during the further coating process. The exact drying 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 LAVASTONE® 190 PUS 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

# Technical data sheet

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The content of this technical data sheet covers the development and our applications experience 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 GCM Global. Any further details regarding the application of our products have to be confirmed in writing by GCM Global. 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.lavastone.online](http://www.lavastone.online).

caused by mechanical abrasion can be repaired with a new layer of sealer.

## 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 LAVASTONE® 190 PUS careful maintenance and care is necessary. 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 LAVASTONE® 190 PUS. For this a basic cleaning is performed with a commercially available, slightly alkaline floor cleaner.

In case of larger areas or for a high degree of staining or pollution the use of mechanical cleaning procedures is recommended. For this a single disk grinder with a white or beige pad is necessary. After cleaning, the surface is rinsed with water until all residues of the cleaner are removed.

The surface should be dry for the subsequent coating. For re-work with LAVASTONE® 190 PUS 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 LAVASTONE® 190 PUS 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.

## Safety notes

Component A: None

Component B: May cause allergic reactions and respiratory irritation. Sufficient ventilation during application has to be ensured. LAVASTONE® 190 PUS is harmless after hardening.

Please refer to the Material Safety Data Sheet which can be requested on [www.lavastone.online](http://www.lavastone.online) for further information on safety during transportation, storage, handling and disposal. Follow instructions on the packaging.

## 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.