

SigaFlex 560

2-C-PU- pre-filled trowel coating

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Description:

SigaFlex 560 is a two-component, solvent-free, coloured, and pre-filled trowel coating based on a polyurethane resin for applications on mineral, reactive resin bound, and on asphalt-bound substrates. **SigaFlex 560** consists of the two-component primer **SigaPox 410** and the two-component **SigaFlex 560** trowel coating. Depending on the application, the overall dry film thickness is approximately 1.3 to 3 mm.

Characteristics:

- Glossy surface
- Can be easily decontaminated
- Easy to clean
- High elasticity
- Good chemical resistance against sea and waste water, dilute acids, mineral oils, lubricants and fuels, as well as a wide range of solvents.

Applications:

SigaFlex 560 is used as a protective liner on the indoor and outdoor areas with moderate mechanical and chemical stress, where especially good crack bridging capability is required. Main fields of applications are, industrial halls, process and storage halls, basement garages (underground car parks), and sanitary constructions. Either smooth or anti-skid coatings which are fulfilling the requirements of the relevant professional association can be built up with **SigaFlex 560**. The product is also suitable for use in continuously wet areas. A primer layer is always necessary.

Chemical resistance:

Information on the chemical resistance is available on request.

Substrate:

Components to be coated shall be designed and manufactured in accordance with EN 14879-1. Before start of coating work, the suitability of the surface preparation measures according EN 14879-1 must be checked and recorded.

Pot life:

Product	15°C	20°C	30°C
SigaFlex 560	ca. 40-60 min	ca. 25-35 min	ca. 12-17 min

Recoat Time (20°C)

Product	min. [h]	Max. [h]
SigaFlex 560	ca. 8-12	ca. 24

**Curing:
(at 50% relative humidity)**

Product	10°C	20°C	30°C
Mechanical load	ca. 10 Days	ca. 7 Days	ca. 3 Days

Packaging:

The products are supplied in the following standard package sizes:

Product	Size	Article No.
SigaPox 410 SOLUTION SOLUTION & HARDENER	25 kg	---
SigaFlex 560 SOLUTION & HARDENER	12 kg	---
SigaFlex 560 SOLUTION & HARDENER	30 kg	---
SigaFlex 560 CLE	10 kg	---
SigaFlex 560 CLE	25 kg	---

Storage:

The products must be stored in a cool and dry place, away from direct sunlight. At the specified storage temperatures a shelf life of the products is given at least for the following periods:

Product	Temperature	Shelf Life
SigaPox 410	15-25°C	12 Months
SigaFlex 560	5-25°C	12 Months
SigaFlex 560 CLE	5-25°C	60 Months

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof. In addition, the DIN 7716 must be observed.

1. Surface preparation

Concrete surfaces must be covered with a suitable primer and if necessary with an additional top coat prior to application. Any unevenness on the surface needs be flattened.

Appropriate action shall be taken to prepare the concrete surfaces; dry and free of dust and free of contaminants such as oil or grease. The concrete shall have minimum tensile strength of 1.5 N/mm². The residual moisture in the concrete shall not exceed 4%. A mechanical treatment by abrasive blasting, high-pressure water blasting or shot blasting is recommended. After milling, flame cleaning or bush hammering the concrete surface, an abrasive blasting is also required.

2. Environmental conditions

The specified environmental conditions must be observed during surface preparation and coating work and be tested and recorded according EN 14879.

Environmental conditions	Value
Relative Humidity	≤ 80%
Application Temperature	+10°C up to +30°C
Dew Point Distance	min. 3K

3. Application

The execution of the coating work is only permitted, if the requirements of „Surface Pre-treatment“ and „Environmental Conditions“ are met. **SigaFlex 560** is poured onto the properly prepared substrate and evenly spread onto the ground with a grout spreader - preferably with a triangular notched one - or with a trowel. If necessary, the coating can be

vented with a spiked roller. In case of a faulty texture on the substrate, the trapped air beneath the coating has to be vented.

For larger areas, make sure that the working times of the material are followed to minimize colour differences and application marks. The application should be performed at a constant or gradually decreasing temperature in order to avoid blistering due to the expansion of air in the substrate. Good ventilation after the application and throughout the course of curing has to be ensured. The surface must be protected from direct contact with water during the entire curing phase.

4. Work tools

The following tools are essential for the application:

- Stirrer (max. 300 r/min.)
- Measuring cup & mixing vessels
- Grout spreader
- Smoothing trowel
- Miscellaneous (safety glasses, rubber gloves etc.)

5. Mixing ratio

Add the whole quantity of **SigaFlex 560 HARDENER** into the **SigaFlex 560 SOLUTION** and stir the mixture with a low-speed agitator thoroughly (recommendation: twin shaft stirrers agitating in opposite directions). Make sure that both two components are mixed thoroughly. It is important that stirring reaches the wall and bottom of the container as well, in order to achieve a uniform mixture. Then pour the mixture into another container and mix further. The final

composition of the mixture must be uniform and free of flow marks prior to application. **SigaFlex 560** is formulated as a ready mixed product. Further addition of filler material into the mixture is not recommended as it results in loss of flexibility.

PRIMER	Parts by Weight	Parts by Volume
SigaPox 410 SOLUTION	100	2.00
SigaPox 410 HARDENER	50	1.00

Coating	Parts by Weight	Parts by Volume
SigaFlex 560 SOLUTION	100	5
SigaFlex 560 HARDENER	16.66	1

6. Consumption per coat

Product	Thickness [mm]	Coverage [g/m ²]
SigaFlex 560	ca. 1	ca. 1500

7. Cleaning

Clean all equipment with **SigaFlex 560 CLE** immediately after use.

8. Safety measures

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal requirements for handling hazardous materials must be observed.

Technical Data	Unit	Value
Density (Mixture)	g/cm ³	1.48
Colour	-	RAL 7032. Further colours on request
Solid Content	%	66
Viscosity	mPa.s	SigaFlex 560 SOLUTION: 1500 – 2300 SigaFlex 560 HARDENER: 150 - 200 Mixture: 1200

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