

# HEGSEL Flex 560

2-Component Polyurethane Resin-Based Coating

**Description:**

**HEGSEL Flex 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.

**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

**Coating layers consumption:**

**HEGSEL Flex 560** consists of the two-component primer **HEGSEL Pox 405** and the two-component **HEGSEL Flex 560** trowel coating. Depending on the application, the overall dry film thickness is approximately 1.3 to 3 mm.

**Applications:**

**HEGSEL Flex 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 **HEGSEL Flex 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 properties is available upon 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.

**Packaging Units:**

The products are supplied in the following standard package sizes:

Product	Size
<b>HEGSEL Pox 405 SOLUTION</b>	25 kg
<b>HEGSEL Pox 405 HARDENER</b>	12.5 kg
<b>HEGSEL Flex 560 Part A &amp; Part B</b>	12 kg
<b>HEGSEL Flex 560 Part A &amp; Part B</b>	30 kg
<b>HEGSEL Flex 560 CLEANER</b>	10 kg
<b>HEGSEL Flex 560 CLEANER</b>	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 of at least for the following periods:

Product	Temperature	Shelf Life
<b>HEGSEL Pox 405 SOLUTION</b>	5-20°C	12 Months
<b>HEGSEL Pox 405 HARDENER</b>	5-20°C	12 Months
<b>HEGSEL Flex 560 Part A &amp; Part B</b>	5-20°C	12 Months
<b>HEGSEL Flex 560 CLEANER</b>	5-20°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 Pre-Treatment

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 to be flattened.

## CONCRETE

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/mm<sup>2</sup>. 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 to EN 14879-3.

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.

**HEGGEL Flex 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 **HEGGEL Flex 560 Part B** into the **HEGGEL Flex 560 Part A** 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. **HEGGEL Flex 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
<b>HEGGEL Pox 405 Solution</b>	100	2.00
<b>HEGGEL Pox 405 Hardener</b>	50	1.00

Coating	Parts by Weight	Parts by Volume
<b>HEGGEL Flex 560 Part A</b>	100	5.00
<b>HEGGEL Flex 560 Part B</b>	16.66	1.00

## 6. Consumption Per Coat

Product	Thickness (mm)	Coverage (g/m <sup>2</sup> )
<b>HEGGEL Flex 560</b>	ca. 1	ca. 1500

## 7. Pot Life / Working Time [Min]

Product	15°C	20°C	30°C
<b>HEGGEL Flex 560</b>	ca. 40 - 60	ca. 25 - 35	ca. 12 - 17

## 8. Recoat Time (20°C)

Product	Min. (h)	Max (h)
<b>HEGGEL Flex 560</b>	ca. 8 -12	ca. 24

## 9. Curing (At 50% Relative Humidity)

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

## 10. Cleaning

Clean all equipment with **HEGGEL Flex 560 CLEANER** immediately after use.

## 11. 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	g/cm <sup>3</sup>	1.48
Colour	-	RAL 7032. Further colours on request
Solid Content	%	66
Viscosity	mPa·s	<b>HEGGEL Flex 560 Part A:</b> 1500 – 2300 / <b>HEGGEL Flex 560 Part B:</b> 150 – 200 Mix Viscosity: 1200

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All information contained herein is based on the current state of our knowledge and practical experience at the time of release. Therefore, please make sure that this is the actual edition of the Technical Data Sheet. All data are only intended as a guideline for informational purposes and do not constitute a legally-binding warranty of the suitability for a certain purpose of use, due to its dependence on site conditions and possible processing, use and applications. All information contained in this technical datasheet is subject to change without notice.

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