

# HEGGEL® Flex 549

Elastic Polyurethane Topcoat / Sealer

*You Build, We Protect!*

## Description:

**HEGGEL Flex 549** It is a two-component elastic polyurethane topcoat / sealer with high coverage and a high pigment content. It is designed for application on **HEGGEL Flex** elastomeric systems, and provides a silk-matt finish after curing. Utilizing **HEGGEL Flex 549** significantly improves the protection of the elastomeric system against minor weather-induced degradation.

## Characteristics:

- High abrasion and chemical resistance
- UV and weather resistance
- Easy to apply
- Harmless and inert once cured
- Low solvent content
- VOC < 500 g/l

## Application Areas:

**HEGGEL Flex 549** is particularly well-suited for outdoor use due to high weather and UV resistance. Depending on the application, **HEGGEL Flex 549** can be sprinkled with materials like slate grit or ceramic granules to create an anti-slip surface.

## Application Data:

<b>Mixing Ratio (Parts by Weight)</b>	A : B = 100 : 20 (5 : 1)		
<b>Colour</b>	Pebble grey ~ RAL 7032 Other colours are available on request		
<b>Finish</b>	Silk matt		
<b>Number of Coats</b>	1 – 2 depending on requested colour and usage		
<b>Consumption</b>	~ 120 - 200 g/m <sup>2</sup> <b>Note:</b> Values apply for 15-23°C; other temps may affect consumption.		
<b>@Temperature</b>	<b>12°C</b>	<b>23°C</b>	<b>30°C</b>
<b>Pot Life</b>	~ 60 min	~ 45 min	~ 30 min
<b>Duration between Applications</b>	min. 36 hrs. Max. 48 hrs.	min. 24 hrs. Max. 36 hrs.	min. 16 hrs. Max. 36 hrs.
<b>Curing Time (Foot Traffic)</b>	36 hrs.	24 hrs.	16 hrs.
<b>Curing Time (Mechanical Load)</b>	96 hrs.	48 hrs.	48 hrs.
<b>Curing Time (Chemical Load)</b>	7 days	5 days	4 days

**Note 1:** All above values are approximate and may be used as a guideline for specifications.

**Note 2:** Slight colour / batch differences may occur due to material and production variations.

## Technical Data:

Title	Standard	Value
<b>Density (Mix)</b>	@23°C	~ 1.30 g/cm <sup>3</sup>
<b>Solids Content</b>	-	~ 50%
<b>Viscosity (Mix)</b>	@23°C	~ 250 ± 100 mPa.s
<b>Abrasion Resistance</b>	ASTM D4060 (Taber /1000 g / 1000 U)	20 mg weight loss (On spray elastomeric)

## Packaging:

12 kg pails (10 kg part A + 2 kg part B)

## Storage:

12 months, sealed in original containers under dry conditions and a temperature of 15 - 25°C. Crystallization may occur at temperatures below 10°C. Please consult HEGGEL!

## 1. Surface Preparation

The surface to be sealed must be dry, clean, and free from grease, oil, dust, rust, and any other contaminants that could impair adhesion. It must also be of generally good quality, and the elastomeric spray should be sufficiently cured at least to a foot-traffic-ready state.

## 2. Environment Conditions

Before, during, and after application, the substrate temperature must be at least 3°C above the current dew point and should range between 5°C and 30°C. Additionally, ensure that the relative humidity is below 75% at 12°C and below 85% at temperatures above 23°C throughout surface preparation, application, and curing processes.

## 3. Application Tools

- Electric mixer
- Short-haired paint-roller (nylon, 6 - 8 mm)
- Rubber squeegee

## 4. Mixing

Before mixing, ensure that all components are at a temperature between 15°C and 25°C. Mix the components in the correct ratio using a suitable low-speed electric mixer (300-400 rpm) for at least 3 minutes, or until a completely homogeneous and uniform mixture is achieved. Then, transfer the mixed material into a clean container and mix for an additional minute.

## 5. Application

**HEGSEL Flex 549** should be distributed immediately onto the surface using a rubber squeegee to spread it evenly. To achieve a uniform finish, follow up with a suitable short-haired paint roller (nylon, 6–8 mm). Avoid overlapping where possible. Note that using only a paint roller may result in a finish with shadowing, typically caused by uneven wet film thickness (WFT).

If the application is interrupted for any reason, tape the edges of the applied material. After approximately one hour, remove the tape, you will notice that a well-defined seam has been created.

If the duration between coats is too short, it can interfere with the proper curing of the next layer.

**Note:** If **HEGSEL Flex 549** is to be used as a protective coating on elastomeric systems applied in constantly wet areas, using **HEGSEL Flex 516** as an adhesion primer recommended.

## 6. Chemical Resistance

**HEGSEL Flex 549** offers good chemical resistance to a wide range of substances, including diluted acids and alkalis, common industrial air pollutants and solvents (contact HEGSEL!).

Tested chemicals include the following:

- |                     |           |
|---------------------|-----------|
| • Acetic acid 5%    | Resistant |
| • Ammonia 5%        | Resistant |
| • Citric acid < 10% | Resistant |
| • Distilled water   | Resistant |
| • Formic acid 2%    | Resistant |

- |                         |           |
|-------------------------|-----------|
| • Hydrochloric acid 10% | Resistant |
| • Nitric acid 10%       | Resistant |
| • Phosphoric acid 25%   | Resistant |
| • Saline solution       | Resistant |
| • Sulphuric acid 20%    | Resistant |
| • Water / sewage        | Resistant |

**Note 1:** Due to the direct correlation between topcoat thickness and the chemical resistance of the coating layer, tests were conducted on epoxy and polyurethane coatings.

**Note 2:** It was not considered whether discoloration had occurred.

## 7. Safety Measures

**HEGSEL Flex 549** contains solvents. Ensure good ventilation during use. If ventilation is inadequate, wear appropriate respiratory protection. Avoid breathing vapours and prevent skin contact. Use suitable protective clothing, gloves, and eye / face protection. Wash skin thoroughly with soap and water after contact. If it gets into eyes, rinse immediately with plenty of water and seek medical attention. Do not eat, drink, or smoke while using the product, and keep it away from ignition sources.

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.

**HEGSEL Flex 549;** Revision No: 0.00 / Last Revision Date: 30.01.2025

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 latest 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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