HEGGEL® Flex 530

Non-Pigmented Polyurethane Sealer

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Pigmented Polyurethane Sealer

You Build, We Protect!

Description:

HEGGEL Flex 530 and **HEGGEL Flex 531** are both two-component sealers with a matt surface finish and contain solvents. **HEGGEL Flex 530** is non-pigmented and **HEGGEL Flex 531** is available in different colour tones. Both products contain solvents and are subject to the hazardous goods regulations.

Both products are suitable for even, matt commercially and industrially used surfaces. The sealers are suitable for polyurethane and epoxy resin coatings. Ensure the product combination possibilities. Yellowing polyurethane coatings should be coated with a covering sealer like **HEGGEL Flex 531.**

HEGGEL Flex 530 and **HEGGEL Flex 531** are made of high-quality raw materials. The products are resistant to yellowing and are predominantly used for areas with decorative requirements. In industrial areas with forklift truck traffic, thin seal-coats may wear off as a result of braking and it should, therefore, be tested in individual cases as, to whether the use of the sealer is reasonable.

The product offers resistance to diluted acids and alkalis, salt solutions and short-term exposure to solvents. Polyurethane sealing products do not have adequate resistance to tyres and long exposure may leave an imprint. Epoxy resin sealers like **HEGGEL Pox 470**, are recommended.

Characteristics:

- Matt surface finish
- Solvent based
- Even optical appearance
- Very economical – due to low consumption
- Resistant to yellowing
- Free of deleterious substances against varnish

Applications:

- **HEGGEL Flex 530** and **HEGGEL Flex 531** are suitable as matt sealer on epoxy resin coatings in commercially and industrially used areas.
- Use as pigmented matt sealer on polyurethane coatings, like **HEGGEL Flex 510, HEGGEL Flex 522,** and so on.
- As finish sealer on decorative coatings with flakes.

Application Data:

Mixing Ratio	**HEGGEL Flex 530**	**Parts by Weight** **Parts by Volume**	A : B = 4 : 1 A : B = 100 : 23		
	HEGGEL Flex 531	**Parts by Weight** **Parts by Volume**	A : B = 5 : 1 A : B = 100 : 18		
Processing Temperature			Minimum 10°C (Room -and floor- temperature)		
Further Coatings			After curing, at the earliest after 18 - 24 hours, but not longer than 48 hours at 20°C.		
Consumption			Approx. 0.120 - 0.180 kg/m² for each application		
Layers			Usually, 1 coat on fresh coatings		
Layer Thickness			0.15 - 0.18 mm for each wet application		
Addition of Quartz Sand			Starting at layers of 2 mm up to 30 % depending on usage and temperature		
Colour		**HEGGEL Flex 530**	Matt, non-pigmented		
		HEGGEL Flex 531	Matt, pigmented		
		@Temperature	**10°C**	**20°C**	**30°C**
Curing Time		**Accessibility**	24 - 36 hrs	18 - 24 hrs	14 - 18 hrs
		Mechanical Load	-	2 - 3 days	-
		Chemical Load	-	7 days	-
Processing Time			70 min	60 min	35 min

Packaging:

Hobbock-Combi 30 kg

Storage:

12 months, store in dry and at frost-free conditions. Ideal storage temperature is 10 - 20 °C. Before application, bring to a suitable working temperature. Tightly re-seal opened containers and use the contents as quickly as possible. Note the directives for storage for products containing solvents.

1. Build-up of Coats

Mortar coating with a smooth surface

- Apply one of the recommended HEGGEL-Base Coats, like e.g. **HEGGEL Pox 410** and scatter with fire-dried quartz sand 1 - 2 mm.
- Apply the decorative or industrial mortar using **HEGGEL Pox 480**.
- For a smooth coating use **HEGGEL Pox 465 / HEGGEL Pox 467** in 2 - 3 coats as pore-sealer or **HEGGEL Pox 465** and **HEGGEL Pox 468** in combination.
- Use **HEGGEL Flex 530** as finish sealer. Apply with a solvent- resistant velour roller using criss-cross strokes.

Single-coloured, smooth polyurethane coating

- Apply one of the recommended HEGGEL-Base Coats, like e.g. **HEGGEL Pox 410** and scatter with fire-dried quartz sand 0.3 / 0.8 mm.
- Apply a scratch coat using **HEGGEL Pox 410 / HEGGEL quartz sand-mix 2/1,** mixing ratio 1 : 0.8 parts by weight.
- Apply a base layer using **HEGGEL Flex 510** or **HEGGEL Flex 511.**

Polyurethane coating with decorative chips (flakes)

- Apply one of the recommended HEGGEL-Base Coats, like e.g. **HEGGEL Pox 410** and scatter with fire-dried quartz sand 0.3/0.8 mm.
- Apply a scratch coat using **HEGGEL Pox 410 / HEGGEL quartz sand-mix 2/1,** mixing ratio 1: 0.8 parts by weight.
- Apply a base layer using **HEGGEL Flex 522.**
- Scatter with Colour flakes, size 3.
- Apply the non-pigmented sealer **HEGGEL Flex 530** in criss-cross strokes.

2. Surface Preparation

The substrate to be coated has to be dry and free of any type of contamination. Usually sealing is the finish layer when coating. Please note that the previous coat hasn't been soiled already. The ideal point of time for sealing is achieved when the previous coating has built an adequate film, but hasn't cured completely yet. When using the usual systems curing is achieved after 18 hours at the earliest and after 48 hours at the latest. When sealing at a later point of time conduct a trial and test the substrate for adequate adhesion. Clean and prepare older substrate with a suitable mechanical method where required. When sealing older synthetic resin surfaces test for adequate adhesion. It is recommended to conduct a trial. Apply at least 2 coats for an even coverage when changing colours.

3. Mixing

Combi-trading units will be supplied in the correctly measured mixing ratio. Component A has sufficient volume for the entire unit. Decant the hardener B completely into the resin A. Blend with a slow speed mixer (200 - 400 rpm) for at least 2 - 3 minutes, for a material that is homogeneous and free of streaks. For partial withdrawals make sure to weigh out in the precise mixing ratio. To avoid mixing errors it is recommended to empty the resin hardener mixture into a clean container and mix briefly once again.

Processing time max. 1 hour at 20 °C (see chart "Processing time").

Note: End of pot-life is not visible!

4. Processing / Handling

Process right after mixing just like with all other reactive resin products. Apply with a lint-free and solvent-resistant roller. Divide working areas to avoid duplicate application and overlaps. Duplicate applications and overlapping may cause an uneven appearance and streaks. Sealers containing solvents should be processed at the recommended temperature range and without insolation or draft.

For larger areas it is recommended that 2 or more people apply the material. One or more people apply the material in one direction another person distributes the fresh material in a 90°-angle. Use a 50 cm roller for re-rolling on larger areas. Roller should be coated with the material. Use only for distribution not for application. Work in an aligned rhythm. Do not carry out the cross coat too late. On larger areas use a roller for the cross coat. Wear stump nail- or soccer-shoes. Always work "fresh-in-fresh" and watch for an even distribution. Avoid ponding otherwise blooming may occur.

Important: When using epoxy resin or polyurethane coatings, allow adequate curing before applying the finish sealer. At room temperature, wait at least 18 hours. Longer waiting periods may be necessary with a maximum of 48 hours. The application of **HEGGEL Flex 530 / HEGGEL Flex 531** is recommended for the following epoxy coatings: **HEGGEL Pox 440**, **HEGGEL Pox 431**, **HEGGEL Pox 465**, **HEGGEL Pox 467**, **HEGGEL Pox 476**, **HEGGEL Pox 450**, **HEGGEL Pox 420**, **HEGGEL Pox 432**. When coating unidentified coating systems conduct pre-trials for testing the adhesion.

Floor -and air- temperature must not fall below 10°C and humidity must not exceed 75 %. The difference in floor -and room-temperature must be less than 3°C so the curing will not be disturbed. If a dew-point situation occurs regular curing may malfunction and spotting may occur. Exposure to water should be avoided within the first 7 days. Curing time applies to 20°C. Lower temperature may increase, higher temperature may decrease the curing and processing time. If working conditions are not complied with, deviations in the described technical properties may occur in the end product.

5. Suitable Coatings

The following self-levelling coatings can be sealed with **HEGGEL Flex 530**:

HEGGEL Pox 450, HEGGEL Pox 455, HEGGEL Pox 420, HEGGEL Pox 420 Rapid, HEGGEL Pox 430, HEGGEL Pox 434, HEGGEL Pox 432, HEGGEL Flex 520, HEGGEL Flex 522, HEGGEL Flex 510, HEGGEL Flex 511, HEGGEL Flex 525.

With other coatings adhesion must be tested. The surface adhesion can anyway be improved by grinding.

6. Cleaning

To remove fresh contamination and to clean tools use **Cleaner V40** immediately. Hardened material can only be removed mechanically.

7. Safety Measures

The product is subject to the hazardous material, operational safety, and transport regulations for hazardous goods. Refer to the DIN-Safety Data Sheet and the information on the labelled containers!

GISCODE: PU 50

8. Indication of VOC-Content

(EG-Regulation 2004/42)

Maximum Permissible Value 500 g/L (2010,II,j/lb):

Ready-for-use product contains < 500 g/L VOC.

Technical Data

Title	Standard	Value		Unit
		HEGGEL Flex 530	HEGGEL Flex 531	
Viscosity (Components A + B)	DIN EN ISO 3219 (23 °C)	200 - 400	200 - 400	mPas
Solid Content	HEGGEL- Method	> 60	> 60	%
Density (Components A + B)	DIN EN ISO 2811-2 (20 °C)	1.10	1.15	kg/L
Brightness (85°)	DIN 67530	10 - 20	10 - 20	
Water Absorption	DIN 53495	< 0.2	< 0.2	Weight %
Abrasion (Taber Abraser)	ASTM D4060	< 50	< 55	mg

Note: Values achieved in sampling are average values. Variation in product specification is possible.

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