HEGGEL® Flex 533

Non-pigmented Polyurethane satin finish sealer

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You Build, We Protect!

Description:

HEGGEL Flex 533 and **HEGGEL Flex 534** are two-component sealers, very resistant to abrasion, resulting in a satin finished surface and contain solvents. **HEGGEL Flex 533** is a non-pigmented sealer and **HEGGEL Flex 534** is available in different colours.

Sealing will result in a finely shagreened, satin finished surface, which can be built with suitable short-floor rollers. Use **HEGGEL Flex 533** and **HEGGEL Flex 534** for decorative, commercially used areas. When using the transparent system **HEGGEL Flex 533** colour flakes may be added.

The sealer is suitable for polyurethane and epoxy resin coatings. Keep within the processing time depending on the product combination. Yellowing polyurethane coatings should be sealed with a covering **HEGGEL Flex 534.** Transparent sealers can be used on darker unsusceptible colours.

HEGGEL Flex 533 and **HEGGEL Flex 534** are made of high-quality raw materials. The sealer is almost resistant to yellowing and is predominantly used for decorative areas.

For industrial areas with material handling equipment thin sealing-coats may be abraded by braking tires. Test for the suitability of the material. The product is resistant to diluted acids and bases, and salt-solutions. Temporarily resistant to solvents. Polyurethane coatings are not sufficiently resistant to tire abrasion. Tire marks can be generated by prolonged holding times. Use acrily or cardboard box pads or seal with epoxy resin sealers, like e.g. **HEGGEL POX 469** or **HEGGEL Pox 470**.

HEGGEL Flex 533 and **HEGGEL Flex 534** contain solvents and are subject to the hazardous material regulation.

Characteristics:

- Satin finished surface
- Contains solvents
- Finely textured
- Resistance to abrasion
- Resistant to yellowing
- Free of deleterious substances against varnish

Applications:

- **HEGGEL Flex 533** and **HEGGEL Flex 534** are used as satin finish sealer for epoxy resin coatings on commercially and industrially used areas with decorative demand, e.g. single coloured coating with colour flakes scattering.
- Semi-gloss sealer for polyurethane coatings like e.g. the yellowing resistant **HEGGEL Flex 522,** but also for standard coatings like **HEGGEL Flex 510** or **HEGGEL Flex 511.** Single coloured coating with **HEGGEL Flex 534** or the transparent **HEGGEL Flex 533** with different scatterings.

Application Data:

Mixing Ratio	**HEGGEL Flex 533**	**Parts by Weight**	A : B = 3 : 1		
		Parts by Volume	A : B = 100 : 30		
	HEGGEL Flex 534	**Parts by Weight**	A : B = 10 : 3		
		Parts by Volume	A : B = 100 : 28		
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			0.150 - 0.180 kg/m² for each application		
Layers	**HEGGEL Flex 533**		Usually 1 layer on same-coloured coatings		
	HEGGEL Flex 534		Usually 1 layer on same-coloured coatings, 2 - 3 layers are necessary on critical colours or a change in colour tone!		
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 533**		Non-pigmented, textured, satin finish		
	HEGGEL Flex 534		Colours upon request		
		@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 solvent.

1. Build-up of Coats

Single coloured, smooth coating

- Apply one of the recommended HEGGEL-Base Coats, like e.g. **HEGGEL Pox 410**, **HEGGEL Pox 415**, or **HEGGEL Pox 412**. Consumption approx. 0.3 - 0.4 kg/m².
- Apply a scratch coat using **HEGGEL Pox 410, HEGGEL Pox 415,** or **HEGGEL Pox 412,** as well as **HEGGEL quartz sand-mix 2/1.** Scatter with quartz sand 0.3 - 0.8 mm, consumption 0.5 - 1.0 kg/m². Sweep off any excess quartz sand before applying the wear layer. Not mandatory for subsequent epoxy resin coatings.
- Apply the wear layer using **HEGGEL Flex 510** or **HEGGEL Flex 522, HEGGEL Pox 430,** or **HEGGEL Pox 432.** Consumption approx. 2.0 - 2.8 kg/m² depending on the product.
- Seal with **HEGGEL Flex 534** using criss-cross strokes. Consumption 0.150 - 0.180 kg/m².

Decorative polyurethane coating with colour flakes, size 3

- Apply one of with the recommended HEGGEL-Base Coats, like e.g. **HEGGEL Pox 410, HEGGEL Pox 415** or **HEGGEL Pox 412.** Consumption approx. 0.3 - 0.4 kg/m².
- Apply a scratch coat using **HEGGEL POX 410, HEGGEL Pox 415,** or **HEGGEL Pox 412,** as well as **HEGGEL quartz sand-mix 2/1.** Scatter with quartz sand 0.3 - 0.8 mm, consumption 0.5 - 1.0 kg/m². Sweep off any excess quartz sand before applying the wear layer. Not mandatory for subsequent epoxy resin coatings.
- Apply the wear layer using **HEGGEL Flex 522** or **HEGGEL Flex 510, HEGGEL Pox 430,** or **HEGGEL Pox 432.** Consumption approx. 2.0 - 2.8 kg/m², depending on the product.
- Scatter with Colour flakes, size 3, approx. 0.050 - 0.100 kg/m², depending on the requested visual appearance.
- Seal with **HEGGEL Flex 533.** Consumption 0.150 - 0.180 kg/m².

Decorative polyurethane coating with colour flakes, size 1 – densely scattered

- Apply one of with the recommended HEGGEL-Base Coats, like e.g. **HEGGEL Pox 410, HEGGEL Pox 415,** or **HEGGEL Pox 412.** Consumption approx. 0.3 - 0.4 kg/m².
- Apply a scratch coat using **HEGGEL Pox 410, HEGGEL Pox 415** or **HEGGEL Pox 412,** as well as **HEGGEL quartz sand-mix 2/1.** Scatter with quartz sand 0.3 - 0.8 mm, consumption 0.5 - 1.0 kg/m². When coating mastic asphalt apply a coat using **HEGGEL Flex 510, HEGGEL Flex 511,** or **HEGGEL Flex 522.** Sweep off any excess quartz sand before applying the wear layer.
- Apply the wear layer using **HEGGEL Flex 522** or **HEGGEL Flex 510, HEGGEL Pox 430,** or **HEGGEL Pox 432.** Consumption approx. 2.0 - 2.8 kg/m², depending on the product.
- Scatter densely with Colour flakes, size 1, and consumption 0.150 - 0.180 kg /m².
- Seal with **HEGGEL Flex 533.** Consumption 0.150 - 0.200 kg/m².

2. Surface Preparation

The substrate to be coated has to be dry and free of any kind of contamination. Usually when applying a coat, the sealer is applied as a finish layer. 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 after 18 hours at the earliest and 48 hours at the latest, curing applies to 20 °C. When sealing at a later point of time conduct a trial and test the substrate for adequate adhesion. Even older, cured coatings may be sealed due to the excellent adhesion. Thorough cleaning and grinding of the surface are required. Trials are necessary to ensure adequate adhesion.

3. Mixing

Combi-trading units will be supplied in the correctly measured mixing ratio. Component A has sufficient volume for the entire trading unit. Decant the hardener compound B into the resin. 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. Partial withdrawals need to be weighed in the correct mixing ratio. To avoid mixing errors it is recommended to empty the resin / hardener mixture into a clean container and mix briefly once again ("to repot").

4. Processing / Handling

Process right after mixing, just like all other reactive resin products. Apply with a lint-free, solvent-resistant velour sealing 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, without any insolation and draft. For larger areas it is recommended that 2 or more people apply the material. One or more apply the material in one direction, another person distributes the fresh material in a 90°-angle. Sealing must be carried out with a fine-texture roller shortly after application the surface structure is still visible. Distribute until a satisfying, even surface appears. Use a 50 cm roller for re-rolling larger areas. The roller should be coated with the material. Use only for distribution not for application to achieve an even surface. Work within an aligned rhythm. Do not carry out the criss-cross strokes too late and use spiked shoes to enter the working area. Always work "fresh-in-fresh" and watch for an even distribution.

Important: Keep within the recommended curing time when sealing epoxy resin and polyurethane coatings. At room temperature wait at least 18 hours. Longer waiting periods are possible but 48 hours at the max. **HEGGEL Flex 533 / HEGGEL Flex 534** is recommended for the following epoxy resin coatings: **HEGGEL Pox 440, HEGGEL Pox 431, HEGGEL Pox 465, HEGGEL Pox 467, HEGGEL Pox 476, HEGGEL Pox 450, HEGGEL Pox 420, HEGGEL Pox 430, HEGGEL Pox 432**. Conduct pre-trials when sealing unidentified coatings.

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 adhesion and 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. Cleaning

To remove fresh contamination and to clean tools, use **Cleaner V30** or **V40** immediately. Hardened material can only be removed mechanically.

6. Cleaning and maintenance of sealed coatings

For cleaning sealed coatings note the recommendations for care and maintenance.

7. Suitable coatings

The following self-levelling coatings can be sealed with **HEGGEL Flex 533** or **HEGGEL Flex 534**:

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.

8. 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!

HEGGEL Flex 533 and **HEGGEL Flex 534** contain solvents. Please note that there might be an unpleasant odour when sealing.

Note: Vent sufficiently, note the safety data sheets and the fire precautions.

GISCODE: PU 50

9. 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 533	HEGGEL Flex 534	
Viscosity (Components A + B)	DIN EN ISO 3219 (23°C)	Appr. 170	Appr. 200	mPas
Solid Content	HEGGEL- Method	> 61.5	> 65	%
Density (Components A + B)	DIN EN ISO 2811-2 (20°C)	1.05	1.10	kg/L
Brightness (85°)	DIN 67530	40 - 70	40 - 70	
Water Absorption	DIN 53495	< 0.2	< 0.2	Weight %
Abrasion (Taber Abraser)	ASTM D4060	< 45	< 45	mg

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

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