

HEGSEL Pox 469

Pigmented 2-component low-emission epoxy resin emulsion sealer for a silk-matt surface

HEGSEL Pox 469-R10

Pigmented and slip resistant 2-component low-emission epoxy resin emulsion sealer for a silk-matt surface

HEGSEL Pox 470

Clear 2-component low-emission epoxy resin emulsion sealer for a silk-matt surface

HEGSEL Pox 470-R10

Clear and slip resistant 2-component low-emission epoxy resin emulsion sealer for a silk-matt surface

Description:

HEGSEL Pox 469 and **HEGSEL Pox 470** are both 2-component and according to the AgBB low-emission epoxy resin sealer.

HEGSEL Pox 470 is used as a clear, matt top coat for reactive resin coatings. Color flakes may be added.

HEGSEL Pox 469 can be used as a covering pigmented sealer on epoxy resin coatings.

Both top coats result in even semi-matt surfaces, adding an even nice appearance. "Mirror effects" of glossy coatings will be considerably reduced.

HEGSEL Pox 469 and **HEGSEL Pox 470** may replace sealers containing solvents in many areas which offers convenient to work with and environmentally friendly alternative materials. Use short piled rollers carrying out criss-cross strokes. Aligned curing results in even surfaces.

HEGSEL Pox 469 and **HEGSEL Pox 470** show good adhesion on many substrates. After adhesive tensile testing the sealer may be used on older substrates as well.

Sealer with an additionally slip resistance effect can be delivered with the special products **HEGSEL Pox 470-R10** and **HEGSEL Pox 469-R10**. They are accredited with the slip resistance grade R10, according to DIN 51130 and BGR 181. Processing the epoxy coatings with a lint-free velour roller, results in an even surface with slip resistance grade R10 after curing.

The product cures by drying and chemically cross-linking resulting in a sturdy consistent film with good adhesion. Completely cross-linked coatings are resistant to many chemicals, especially to water, salts, aqueous acids and alkalis, oil as well as many different solvents.

Note: Sealed surfaces offer only limited resistance to mechanical load. Material handling equipment may affect or destroy the sealer. Limited extent usage. In very or frequently wet areas, as well as areas exposed to chemicals, sealers containing solvents would be more appropriate.

Characteristics:

- Low VOC
- Environmentally friendly
- Solvent-free
- Convenient to work with
- Low odour
- Results in even surfaces
- Reduces the gloss
- Adds pleasant appearance to the coatings
- Very economical

Application:

- **HEGSEL Pox 470** is used as a clear matt-sealer on high-quality decorative and industrial epoxy coatings.
- **HEGSEL Pox 469** is used as a covering matt-sealer on high-quality decorative and industrial epoxy coatings.
- As matt-sealer on water vapour permeable coatings like **HEGSEL Pox 433** with or without Color flakes added.
- Use as finish for **HEGSEL Pox 417** – primed tempered cement coatings or grinded concrete surfaces (trials are urgently recommended).
- **HEGSEL Pox 469 / HEGSEL Pox 470** may be used on old substrates.
- **HEGSEL Pox 469-R10** or **HEGSEL Pox 470-R10** are used in areas where the slip resistance grade R9 or R10 is requested.

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HEGSEL Pox 470-R10

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Technical Data:

Mixing ratio	HEGSEL Pox 470	A : B = 2 : 3 parts by weight A : B = 100 : 156 parts by volume		
	HEGSEL Pox 469	A : B = 2 : 3 parts by weight A : B = 100 : 144 parts by volume		
	HEGSEL Pox 470-R10	A : B = 4 : 6.5 parts by weight A : B = 100 : 167 parts by volume		
	HEGSEL Pox 469-R10	A : B = 4 : 6.5 parts by weight A : B = 100 : 156 parts by volume		
Processing time	Temperature	15 °C / 59 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	65 minutes	60 minutes	45 minutes
Processing temperature		Minimum 15 °C / 59 °F - Maximum 30 °C / 86 °F (room- and floor-temperature)		
Curing time (Accessibility)	Temperature	15 °C / 59 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	24 - 36 hrs.	18 - 24 hrs.	14 - 18 hrs.
Curing		2 - 3 days for mechanical load at 20 °C / 68 °F 7 days for chemical resistance at 20 °C / 68 °F		
Further coatings		After 18 - 24 hours, but not longer than 48 hours at 20 °C / 68 °F		
Consumption		0.120 - 0.180 kg/m ² for each application		
Layers		For same-colour coatings one application is usual, for difficult colours or colour tone changes apply 2 - 3 coatings!		
Colour	HEGSEL Pox 470/470-R10	Clear		
	HEGSEL Pox 469/469-R10	Colours upon request!		
Packaging		Combi-Bucket 10 kg, Combi-Hobbock 25 kg (HEGSEL POX 470 only)		
Shelf life		12 months (originally sealed) – Protect from frost!		

1. Substrate

The substrate to be coated must be dry and free of any kind of dirt. Usually sealing is the final coat. Watch that prior coats are not soiled already. The optimum point-of-time for sealing is reached when the prior applied epoxy resin coating has cured to a sufficient stable film but not cured completely yet. Apply at 20 °C / 68 °F air- and floor-temperature after 12 hours at the earliest but not longer than 36 hours for usual systems. Note the recommendations. When sealing after the recommended point of time conduct a trial for sufficient adhesion. Even cured coatings may be sealed because of the good adhesion of the material. Required is an accurate cleaning and grinding of the surface. On old surfaces conduct pre-trials. For a change in colour tone apply at least 2 coatings. Weakly covering colours like yellow and white may require further applications.

2. Mixing

Combi-trading units will be supplied in the correctly measured mixing ratio. Component B has sufficient volume for the entire trading unit. Decant component A into the hardener. For partial withdrawals stir up the single components first and then withdraw the correctly measured amount of the single component. Blend with a slow speed mixer (200 - 400 r/pm) for at least 2 - 3 minutes, for a material that is homogeneous and free of streaks. To avoid mixing errors it is recommended to principally empty the resin/hardener-mixture into a clean container and mix briefly once again.

Processing time max. 60 minutes at 20 °C / 68 °F (see chart "Processing time").

Note: End of pot-life is not visible!

3. Processing / Handling

Process the material immediately after mixing as with all other reactive resins. Apply with a lint-free velour roller. Divide working areas to avoid duplicate application and overlaps. For larger areas

it is recommended that 2 or more people apply the material. One or more workers apply the material in one direction another person distributes the fresh material in a 90°-angle.

Use a 50 cm wide roller on larger areas. Roller should be coated with the material. Use only for distribution not for application. For sealing work keep within the work rhythm— criss-cross rolling may not be carried out too late. Use spiked shoes on larger areas. Always work "fresh-in-fresh" and watch for an even distribution. Avoid ponding otherwise clouding or blooming may occur. Pay attention to a clean surrounding area. Use rollers suitable for sealing. Enter the area with clean shoes only. Note the recommended drying conditions during curing!

Floor- and air-temperature must not fall below 15 °C / 59 °F and/or humidity must not exceed 75 %. The suggested ambience conditions must be respected also during the curing phase. The difference in floor- and room-temperature must be less than 3 °C / 37.4 °F so the curing will not be disturbed. If a dew-point situation occurs adhesion may malfunction, curing may be disturbed and spotting may occur. Avoid exposure to water and chemicals within the first 7 days. Curing time applies to 20 °C / 68 °F. 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.

4. Cleaning

To remove fresh contamination and to clean tools, use water immediately. Hardened material can only be removed mechanically.

5. Cleaning and maintenance of sealed coatings

For cleaning note the recommendations for care and maintenance. For the warranty of interlayer adhesion do not apply any HEGGEL-Floor care products

on aqueous sealers within the first 7 days (20 °C / 68 °F).

Note: In special cases, especially with vibrant colours, the cleaning might cause a loss of colour. This can be avoided by laying an additional transparent sealing e.g. **HEGGEL Pox 470** or **HEGGEL Pox 470-R10**. If necessary, ask for a consultancy.

6. Suitable Coatings

The following self-levelling coatings can be sealed with **HEGGEL Pox 470 / HEGGEL Pox 469 / HEGGEL Pox 470-R10 / HEGGEL Pox 469-R10**:

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.

7. Storage

Store in dry and at frost-free conditions. Ideal storage temperature is between 10 - 20 °C / 50 - 68 °F. Bring to a suitable working temperature before application. Tightly re-seal opened containers and use the content as soon as possible.

8. Special Remarks

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: RE 1

Indication of VOC-Content:

(EG-Regulation 2004/42)

Maximum Permissible Value 140 g/l (2010,II,j/wb):

Ready-for-use product contains < 140 g/l VOC.

Technical Data*

	HEGSEL Pox 470 HEGSEL Pox 470-R10	HEGSEL Pox 469 HEGSEL Pox 469-R10		
Viscosity Components A + B	650 - 800	750 - 900	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solid content	> 40	> 45	weight-%	HEGSEL-Method
Flashpoint	Not flammable		-	DIN 51755
Density Components A + B	1.07	1.10	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Abrasion (Taber Abraser)	< 40	< 50	mg	ASTM D4060
Brightness (85°)	10	35	-	DIN 67530

(* Values achieved in sampling are average values. Variation in product specification is possible.)

VOC-Contents

The product complies with the high requirements to low VOC-contents, as required for sustainable construction. Therefore these values exceed by far the European Union directive 2004/42/EG (decopaint-directive).

	Reference to*	Max. Value	Actual Content HEGSEL Pox 470 HEGSEL Pox 470-R10	Actual Content HEGSEL Pox 469 HEGSEL Pox 469-R10
Directive 2004/42/EG Decopaint-directive	Component A	≤ 140	14 g/l	14 g/l
	Component B	≤ 140	26 g/l	37 g/l
DGNB German Sustainable Building Council	Components A + B	< 3	2.0%	2.8%
climate:active Climate protection initiative of the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water	Components A + B	< 3	2.0%	2.8%
LEED Leadership in Energy and Environmental Design	Components A + B	< 100	22 g/l	30 g/l
Minergie Eco® Quality standard of the "Minergie society ", Switzerland	Components A + B	< 1 (< 2)	2.0%	2.8%

(* According to the decopaint-directive single components are used for the calculation. For the quality rating system for sustainable construction the mixture of both components in the correct mixing ratio is the determining factor.)

HEGSEL Pox 470 / HEGSEL Pox 470-R10 / HEGSEL Pox 469 / HEGSEL Pox 469-R10; Revision No: 1.00 / Last Revision Date: 20.10.2020

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.

HEGSEL GmbH
Huttropstr. 60
45138 Essen
Germany
Tel: +49 201 17003 270
Fax: +49 201 17003 277
E-Mail: info@heggel.de
Web: www.heggel.de