

HEGSEL Pox 488

Ready-to-use 2-component epoxy resin primer for car park surface protection systems

Description:

HEGSEL Pox 488 is a 2-component epoxy resin primer for preparing substrates for subsequent car park coatings.

HEGSEL Pox 488 is used as a ready-to-use primer as well as to even out roughness and for levelling. Its preferred use is for subsequent scattered coatings where sufficient levelling is achieved for the subsequent coatings, e.g. OS 8 coatings with **HEGSEL Pox 430**.

Suitable as a primer on all moisture-resistant, dimensionally stable substrates such as concrete and cement screed. The product has very good compressive strength and is suitable for all car park surface protection system applications.

However, it can also be used for smooth coatings, which requires double application for normally absorbent substrates. If a levelling compound has to be applied to even out higher levels of roughness, approx. 20 – 50 % of 0.1/0.4 mm fire-dried quartz sand can be added.

HEGSEL Pox 488 provides a solid basis for all subsequent surface protection systems and coverings, hardens through quickly without shrinkage. The product has good compressive strength and is suitable for all parking, industrial and commercial flooring applications.

Characteristics:

- Ready-to-use
- Hardens quickly and can be coated over
- High bond strength
- Economical

Application:

- As primer and to even out roughness prior to the application of surface protection systems.
- As a primer and levelling compound prior to the application of scattered coatings and coatings.
- Economical and fast solution for small areas.

Technical data:

Mixing ratio	Parts by weight Parts by volume	A : B = 5 : 1 A : B = 100 : 33
Processing time	Temperature Time	10 °C / 50 °F 45 minutes 20 °C / 68 °F 25 minutes 30 °C / 86 °F 15 minutes
Processing temperature		Minimum 10 °C / 50 °F (room and floor temperature)
Curing time (Accessibility)	Temperature Time	10 °C / 50 °F 12 - 14 hrs. 20 °C / 68 °F 6 - 8 hrs. 30 °C / 86 °F 5 - 6 hrs.
Hardening		2 - 3 days for mechanical loading capacity at 20 °C / 68 °F 7 days for chemical loading capacity at 20 °C / 68 °F
Consumption	Primer Scratch Coat	0.3 - 0.6 kg/m ² depending on the substrate's roughness 0.5 - 0.6 kg/m ² depending on the substrate's roughness whilst adding 20 - 50 % of 0.1/0.4 mm natural quartz sand (depending on temperature) if necessary
Packaging		Hobbock combi 30 kg
Shelf life		12 months (originally sealed)

1. Build-up of Coats

Priming for car park coatings in accordance with RILI-SIB OS 8 and OS 11 a/b

- The substrate, e.g. concrete, cement screed, etc. should be mechanically prepared, preferably using shot blasting.
- Prime with **HEGGEL Pox 488**. Application is carried out in an even layer using a trowel, smoothing trowel, a rubber squeegee or an offset squeegee. Consumption approx. 0.3 - 0.6 kg/m².
- The fresh surfaces should be covered with natural quartz sand with a grain size of 0.3/0.8 mm (or 0.6/1.2 mm) to ensure optimum adhesion to the **HEGGEL Flex 540** floating / wear layer.
- For the structure of OS 8 coating in conjunction with **HEGGEL Pox 430**, refer to the product information of **HEGGEL Pox 430**.

Primer/levelling compound for subsequent self-levelling coatings

- Experience has shown that the first primer coat for subsequent flow coatings should be applied using an unfilled primer, such as **HEGGEL Pox 484**.
- **HEGGEL Pox 488** is also suitable for substrates with normal absorbency, in accordance with the following procedure:
- Evenly apply **HEGGEL Pox 488** prime coating using a trowel, rubber squeegee or surface squeegee. Consumption approx. 0.3 - 0.6 kg/m² depending on absorbency and roughness. Roll again using a nylon roller for even distribution. In order to obtain non-porous surfaces for the subsequent self-levelling coating, a further layer (consumption approx. 0.6 kg/m²) or a levelling compound (consumption approx. 0.7 - 1.0 kg/m²) must always be applied. This can be achieved by adding 0.1/0.4 mm quartz sand (20 to 50% by weight, depending on layer thickness and temperature). The surface to be coated must be free from pores so that no bubbles form in the coating.

2. Substrate

The substrate to be coated must be even, dry, dust-free, sufficiently resistant to tension and compression, and free from weakly bonded components or linings. Materials impairing adhesion, such as grease, oil and traces of paint, should be removed using suitable measures. C20/25 concrete, CT-C35-F5 (ZE30) cement screed and other sufficiently firm substrates are suitable for coating. The substrates must have a sufficiently high strength for the intended type of use. Coating mastic asphalt with epoxy resins is not recommended. The substrates which are to be coated should be mechanically prepared, preferably using shot blasting.

Their absorbency must be checked. The surface bonding strength must then amount to at least 1.5 N/mm². The moisture content should not exceed 4.5% CM for concrete. Rising damp must be ruled out for the long term.

3. Mixing

For combi-packaging, a ready mix contains the factory-weighed material at exactly the right mixing ratio. Component A's packaging has sufficient volume to accommodate the total amount. Empty hardening agent B completely into the resin packaging. Mixing is carried out mechanically using a slow speed mixer (200 - 400 rpm) and should take 2 - 3 minutes until a homogeneous, streak-free compound forms. To avoid mixing errors, transferring the resin/ hardener compound to a clean container and then stirring again for a short period ("decanting") is recommended. If quartz sand is added to produce a filler, then this is stirred in immediately following mixing. 0.1/0.4 mm quartz sand is recommended. Approx. 20 - 30 % for compounds in layers below 1 mm; for higher layers above 2 mm, up to 50 % sand can be added.

4. Processing

Processing takes place immediately after mixing, the resin is distributed within the area to be treated and is squeegeed in an even layer using a trowel, a smoothing trowel, a rubber squeegee or an offset squeegee. The path is always overlapped so that the surface is evenly wetted. Consumption should be checked. Redistribute using a roller if necessary.

Apply subsequent layers within the recommended time frame. If the subsequent coating is not applied within the processing time frame, the primer/levelling compound must be sanded off.

The floor and air temperature should not be lower than 10 °C / 50 °F and the air humidity should not exceed 75 %. The temperature difference between the floor and room temperatures should be less than 3 °C/ 37.4°F so that hardening is not disturbed. If a condensation-point situation occurs, normal hardening cannot take place and hardening problems and spotting occur. The specified hardening times apply for 20 °C / 68 °F: at lower temperatures the processing and hardening times are longer, at higher temperatures they are shorter. If the processing conditions are not observed, the end product's technical properties may deviate from the description.

5. Cleaning

To remove fresh contamination and to clean tools use **Cleaner V20** or **V30** immediately. Hardened material can only be removed mechanically.

6. Storage

Store in a dry location and, if possible, protect against frost. Ideal storage temperature 10 - 20 °C / 50 - 68 °F. Bring to the correct processing temperature before applying. Tightly seal opened packaging and use up as soon as possible.

7. Special Remarks

The product is subject to the hazardous material regulation, operational safety regulation and the transport regulation for hazardous goods. The necessary notes are contained within the DIN safety data sheet. Pay attention to key information on the product label!

GISCODE (modification 05/2018): RE 30

VOC content labelling:

(EU Regulation 2004/42)

Maximum Permissible value 500 g/l (2010,II,j/lb): Ready-for-use product contains < 500 g/l VOC.

Technical Data*

Viscosity	Components A + B	Approx. 1200	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solids content		> 99	weight-%	HEGSEL-Method
Density	Components A + B	1.4	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Shore-hardness D		87	-	DIN 53505 (after 7 days)
Adhesive tensile strength		> 1.5	N/mm ²	DIN EN 1542

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

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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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