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HEGGEL Pox 484

Universal 2-component epoxy resin primer for car park surface protection systems

Description:

HEGGEL Pox 484 is a solvent-free, unfilled and universally applicable 2-component epoxy resin primer, which is used in CAR PARK surface protection systems (OS 8, 11a/b).

HEGGEL Pox 484 can be used as a primer and scratch coat in new buildings and renovation. Due to its low viscosity and good wettability, the resin penetrates the substrate very well and thus provides a high-strength base for the subsequent surface protection system.

HEGGEL Pox 484 is supplied as a ready- to-use, unfilled primer. For use for scratch coats, the resin is filled with approx. 50 - 80 percentage by weight of **HEGGEL quartz sand-mix 2/1**.

Characteristics:

- High solids content
- Universally applicable
- Low viscosity
- High bond strength
- Economical

Application:

- As a primer and scratch coat before applying **HEGGEL Flex 540** to install surface protection systems (OS 11a/b).
- As a primer before applying **HEGGEL Pox 430** to install surface protection systems OS 8.
- As a levelling compound to even out roughness when mixed with **HEGGEL quartz sand-mix 2/1**.

Technical data:

Mixing ratio	Parts by weight	A : B =	100 : 47	
	Parts by volume	A : B =	100 : 51	
Processing time	Temperature	10 °C / 50 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	45 minutes	30 minutes	15 minutes
Processing temperature		Minimum 10 °C / 50 °F (room and floor temperature)		
Curing time (Accessibility)	Temperature	10 °C / 50 °F	20 °C / 68 °F	30 °C / 86 °F
	Time	16 - 20 hrs.	12 - 15 hrs.	8 - 12 hrs.
Curing		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	0.3 - 0.4 kg/m ² depending on the substrate's roughness		
	Scratch Coat	0.4 - 0.6 kg/m ² depending on the substrate's roughness whilst adding 50-80% HEGGEL quartz sand-mix 2/1 if necessary		
Packaging		Hobbock combi 30 kg		
Shelf life		12 months (originally sealed)		

1. Build-up of Coats

Priming for surface protection systems in accordance with DAfStb guideline OS 11 a/b

- Prepare the substrate, preferably using shot blasting, and thoroughly vacuum off.
- Apply the primer **HEGGEL Pox 484** using the scraper, rubber wiper, spatula or nylon roller. Consumption approx. 0.3 - 0.4 kg/m². Go over it again with a nylon roller to achieve a uniformly sealed surface.
- Alternatively, **HEGGEL Pox 488**, consumption approx. 0.3 - 0.6 kg/m², can be used as a pre-filled primer.
- Optional if surface roughness has to be levelled: Scratch coat consisting of **HEGGEL Pox 484** and **HEGGEL quartz sand-mix 2/1**, mixing ratio (A+B): Mixing sand = 1 : (0.5 - 0.8). Consumption approx. 0.8 - 1.2 kg/m².
- Open sanding using quartz sand, grain size 0.3/ 0.8 mm or 0.7/1.2 mm, consumption approx. 0.5 - 1.0 kg/m² for the following floating coat **HEGGEL Flex 540**.
- For further OS 11 a/b coatings, please refer to the product information of **HEGGEL Flex 540** and **HEGGEL Flex 544**.

Priming for surface protection systems in accordance with DAfStb Guideline OS 8

- Prime using **HEGGEL Pox 484**, consumption approx. 0.3 - 0.4 kg/m².
- Alternatively, **HEGGEL Pox 488**, consumption approx. 0.3 - 0.6 kg/m² can be used as a pre-filled primer.
- Optional: Open sanding using quartz sand, grain size 0.3/0.8 mm, consumption approx. 0.5 - 1.0 kg/m².
- For further application steps of OS 8 flooring with wear layer and **HEGGEL Pox 430** top sealer, refer to the **HEGGEL Pox 430** product information

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 surfaces.

Materials impairing adhesion, such as grease, oil and traces of paint, should be removed using suitable measures. Suitable concretes are C30/37 (exposure class XD1) or C35/45 (exposure class XD3). The substrates must have a sufficiently high strength for the intended

type of use. The substrates which are to be coated should be mechanically prepared, preferably using shot blasting. Their absorbency must be checked. Their surface strength must be at least 1.5 N/mm² (for OS 11a/b) or 2.0 N/mm² (for OS 8). The moisture content must not exceed 4.5 CM-% for concrete. Rising damp must be permanently excluded.

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 hold the entire quantity. Empty hardening agent B completely into the resin container. For drum deliveries, both components must be weighed in a clean container in the correct mixing ratio. Mixing is carried out mechanically using a slow speed mixer (200 - 400 rpm) and for 2 - 3 minutes until a homogeneous, streak-free compound is obtained. To avoid mixing errors, it is recommended to transfer the resin/hardener compound to a clean container ("to repot") and then to briefly mix it again.

Should **HEGGEL quartz sand-mix 2/1** be added to produce a scratch coat, the binding agent should be premixed before the mixing sand is added. The amount to be added can be varied according to the desired consistency.

4. Processing

Primer:

The primer is applied using a rubber wiper, scraper, spatula or nylon roller immediately after mixing. Apply the material to the substrate in an evenly distributed layer. Check consumption quantities. If the substrate is highly absorbent, a further priming or scratch coat is recommended to achieve a non-porous substrate, if necessary. Take requirements of the following coat into consideration, e.g. polyurethane coatings such as **HEGGEL Flex 540** should be scattered with fire-dried quartz sand with a grain size of 0.3/0.8 mm.

If roughness needs to be evened out, a levelling compound can be applied to smooth the substrate as well as to completely close the pores. The pre-mixed material is applied using a trowel, steel squeegee or rubber squeegee.

The consistency must be adapted to the substrate absorbency and temperature and must be set so that the material flows smoothly.

Special remarks: "Gumming" the screed joints/flat joints with pure epoxy resin or epoxy resin filled with a thixotropic agent is not recommended. These areas will become apparent on the surface over time. Installation should always take place using the HEGGEL primer resin in combination with quartz sand, e.g. **HEGGEL quartz sand-mix 1** or **HEGGEL quartz sand-mix 2/1**. Adding at least 1 - 3 parts by weight of filler is recommended.

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 curing is not disturbed. If a dew-point situation occurs, normal curing cannot take place and spotting may occur. The specified curing times apply for 20 °C / 68 °F: At lower temperatures the processing and hardening times will increase and decrease at higher temperatures. 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 consume 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. Refer to the DIN safety data sheet and to the information on the container 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	600	mPas	DIN EN ISO 3219 (23 °C / 73.4 °F)
Solids contents		> 99	weight-%	HEGSEL-Method
Density	Components A + B	1.09	kg/l	DIN EN ISO 2811-2 (20 °C / 68 °F)
Shore-hardness D		80	-	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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