HEGGEL[®] Pox 410

All-Purpose Epoxy Resin



You Build, We Protect!

| Description: | HEGGEL Pox 410 is a high-quality, solvent-free, all-purpose usable, two-component epoxy resin. HEGGEL Pox 410 is suitable as base coat, for scratch coats, or as levelling mortar for new construction sites, as well as for reconstruction work. Due to its low viscosity and good wettability properties, the resin penetrates in the substrate and results in a high-strength foundation for subsequent coatings. HEGGEL Pox 410 is our first recommendation, already for years now, for substrate preparation. The material is very reliable under various construction site conditions. | | | | |
|-------------------|--|------------------------------------|--|------------|-----------|
| Characteristics: | High solid content Approved, high-quality base coat Safe and reliable Resistant to hydrolysis and saponification Good interlayer adhesion All-purpose Free of deleterious substances against varnish | | | | |
| Applications: | Base coat and scratch coats Priming filler Levelling coat and epoxy resin mortar | | | | |
| Application Data: | Mixing Ratio | Parts by Weight Parts by Volume | A : B = 2 : 1 A : B = 100 : 54 | | |
| | Processing Temperature | | Minimum 10 °C (Room -and floor- temperature) | | |
| | Further Coatings | | After curing, but not longer than 48 hours at 20 °C | | |
| | Consumption | Base Coat Scratch Coat | Approx. 0.3 – 0.4 kg/m ² Approx. 0.4 – 0.6 kg/m ² | | |
| | @Temperature | | 10°C | 20°C | 30°C |
| | | Accessibility | 12 – 14 hrs | 6 – 8 hrs | 5 – 6 hrs |
| | Curing Time | Mechanical Load | - | 2 – 3 days | - |
| | | Chemical Load | - | 7 days | - |
| | Processing Tim | ne | 60 min | 30 min | 15 min |

Technical Data:

| Title | Standard | Value | Unit |
|------------------------------|--------------------------|-------|-------------------|
| Viscosity (Components A + B) | DIN EN ISO 3219 (23°C) | 800 | mPas |
| Solid Content | HEGGEL-Method | > 99 | Weight % |
| Density (Components A + B) | DIN EN ISO 2811-2 (20°C) | 1.10 | kg/L |
| Weight Loss | After 28 days | 0.3 | Weight % |
| Water Absorption | DIN 53495 | < 0.2 | Weight % |
| Bending Tensile Strength | DIN EN 196/1 | 35 | N/mm² |
| Compressive Strength | DIN EN 196/1 | 80 | N/mm² |
| Shore-Hardness D | DIN 53505 (after 7 days) | 80 | - |
| Adhesive Tensile Strength | DIN EN ISO 1542 | > 1.5 | N/mm ² |

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

Packaging:

Hobbock-Combi 30 kg

Storage:

12 months in sealed original containers under dry and cool conditions between 10°C and 20°C Store in dry and at frost-free conditions

1. Surface Preparation

The substrate to be coated has to be levelled, dry, free of dust, has to have adequate tensile and compressive strength, and be free from weakly-bonded components or surfaces. Materials impairing adhesion, such as grease, oil, and paint residues must be removed using suitable methods. Suitable surfaces are concrete C20/25 (B 25), cement screed CT-C35-F5 (ZE 30), as well as other adequately sound surfaces. The substrate has to have adequately high strength for the proposed occupational use. Coating of mastic asphalt with epoxy resin is not recommended. The surface to be coated prepared mechanically, should he preferably by shot-blasting. The surface strength must then be a minimum of 1.5 N/mm². For concrete, moisture content must not exceed 4.5 CM%, remaining residual humidity. The possibility of moisture ingress from the rear must be permanently excluded. Reconstructing floors may need special procedures. Obtain technical advice.

2. Mixing

Single packages of the components need to be measured in the precise mixing ratio. 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 completely into the resin. Blend with a slow speed mixer (200 - 400 rpm) for 2 - 3 minutes at least, for a material that is homogeneous and free of streaks. To avoid mixing errors it is recommended to empty the resin/hardener mixture into a clean container and mix briefly once again ("to repot").

Producing scratch coats and mortar:

Scratch coats:

1.0 kg HEGGEL Pox 410

0.5 – 0.8 kg HEGGEL quartz sandmix 2/1

Epoxy resin mortar:

| 1.0 kg | HEGGEL Pox 410 |
|---------------|------------------------------|
| 8.0 – 12.0 kg | HEGGEL quartz sand- mix 1 |

Before adding additives, premix the binding agent. Then add the additive. The amount of the sand blend to be added depends on the desired texture and consistency.

3. Processing / Handling

Base coat: Processing the material as a base coat takes place immediately after mixing, using a coating knife, trowel, or nylon roller. Apply an evenly closed coat on the substrate. On highly absorbent surfaces a second coat or a saturated scratch coat is recommended to achieve a compact surface. For optimum adhesion scatter the fresh surface with quartz sand (grain size 0.3/0.8 mm). This is mandatory if the subsequent coatings will be applied later than 48 hours after base coat application.

Scratch coat: For smoothing the substrate, as well as pore sealing apply a scratch coat. Use a trowel, metal-, or rubber coating knife. The consistency has to be adjusted according to the absorbency of the substrate, and set so the material may run true.

Priming filler: Base coat and the smoothing coat may be applied simultaneously. It just has to be assured that a sufficient sealing coat for subsequent coatings is achieved. Usually, prime filling coats may be filled with 0.5 kg of **HEGGEL quartz sand-mix 2/1** for 1 kg of binding agent. Apply with a rubber coating knife, with a consumption of 0.7 - 1.0 kg/m², depending on the depth of roughness of the substrate.

Epoxy resin mortar: HEGGEL Pox 410 may be used as mortar for repair work. Use the special resin **HEGGEL Pox 480** for industrial mortar coatings. Process immediately after mixing. Pull off with a lath, compact and smooth with a smoothing trowel.

Floor- and air-temperature must not fall below 10 °C and humidity must not exceed 75 %. The difference in floor- and roomtemperature must be less than 3 °C so the curing will not be disturbed. If a dew- point situation occurs, adhesion may malfunction, curing may be disturbed, and spotting may occur. Curing time applies to 20 °C. Lower temperature may increase, higher temperature may decrease the curing and processing time.

Special remarks: We advise against the "gumming" of screed joints/flat joints with pure or with thixotropic agent filled epoxy resin. In the course of time, these areas will begin to show on the surface. For the application, use always the HEGGEL-Primer resin in combination with quartz sand e.g., **HEGGEL quartz sand-mix 1** or **HEGGEL quartz sand-mix 2/1.** For this, we recommend to add at least 1 – 3 parts by weight of filler.

4. Cleaning

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

5. 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: (05/2018 modification): RE 30**

6. 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.

HEGGEL Pox 410; Revision No: 1.10 / Last Revision Date: 18.09.2023

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 latest 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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