HEGGEL® Pox 495

All-Purpose Epoxy Resin

You Build, We Protect!

Description:

HEGGEL Pox 495 is an all-purpose two-component epoxy resin-based primer / scratch coat / levelling mortar. The low viscosity and excellent wettability of the resin allow deep penetration into the substrate, forming a high-strength base layer for subsequent coating applications.

Characteristics:

- High-quality primer with proven performance and reliability
- Excellent interlayer adhesion
- Resistant to hydrolysis and saponification
- Low viscosity and good wettability properties
- Free from harmful to varnish substances
- VOC < 500 g/l

Application Areas:

HEGGEL Pox 495 is a specifically developed primer for use in facilities where substances hazardous to water are stored, filled, or transferred. It is tested and approved for use within HEGGEL's water protection floor coating systems.

Application Data:

Colour	Transparent		
Mixing Ratio (Parts by Weight)	A : B = 100 : 50		
Consumption	Base coat: ~ 0.3 - 0.4 kg/m^2 Scratch coat: ~ 0.4 - 0.6 kg/m^2		
Duration Between Applications	After hardening time, latest after 48 hrs @20 °C. **Note**: If sprinkled with quartz sand, the duration will increase.		
Temperature	**12 °C**	**23 °C**	**30 °C**
Processing Time	~ 45 min	~ 25 min	~ 15 min
Curing Time (Chemical Load)	14 days	7 days	5 days
Temperature	**10 °C**	**20 °C**	**30 °C**
Curing Time (Foot Traffic)	14 hrs	8 hrs	6 hrs
Curing Time (Mechanical Load)	-	2 - 3 days	-

Note: All above values are approximate and may be used as a guideline for specifications.

Technical Data:

Title	Standard	Value
Solids Content	-	~ 100%
Density (Mix) @23°C	-	~ 1.07 g/cm³
Viscosity (Mix)	DIN EN ISO 3219	~ 850 ± 100 mPa.s
Compressive Strength	DIN EN 196/1	~ 80 MPa
Bending Tensile Strength	DIN EN 196/1	~ 35 MPa
Water Absorption	-	< 0.2%
Temperature Resistance	-	Wet: Max. 60 °C (Short- term) Dry: Max. 80°C

Packaging:

30 kg Hobbock (20 kg part A +10 kg part B)
Other packaging available on request.

Storage:

12 months, sealed in original containers under dry conditions and a temperature of 10 – 20 °C. Reseal opened packages tightly and use the contents promptly.
Protect from heat and freeze.

1. Surface Preparation

Before application, the substrate must be prepared using qualified methods of shot blasting. The substrate must meet the following minimum requirements: It should be free of slurry, dust, oil, grease, and other adhesion-impairing contaminants. It must have an absorbent surface and a pull-off strength of at least 1.5 MPa. The concrete residual moisture content should be no more than 4%.

2. Environment Conditions

Before, during, and after application, the substrate temperature must be at least 3 °C above the current dew point and should be minimum 10 °C. Additionally, ensure that the relative humidity is below 75% at 12 °C and below 85% at temperatures above 23 °C throughout surface preparation, application, and curing processes.

3. Application Tools

- Rubber squeegee
- Trowel / notched comb
- Paint roller

4. Mixing

Before mixing, ensure that all components are at a temperature at least 15 °C. Mix the components in the correct ratio using a suitable low-speed electric mixer (300 - 400 rpm) for at least 3 minutes, or until a completely homogeneous and uniform mixture is achieved. Then, transfer the mixed material into a clean container and mix for an additional minute.

Add fillers only after the components have been thoroughly mixed to a homogeneous state.

5. Application

Bring to a suitable processing temperature before application and immediately distribute the prepared mixture onto the surface. Depending on the substrate condition, application of a primer followed by a scratch coat or a filler primer may be necessary. Apply the primer using a rubber squeegee, then work it thoroughly into the substrate with a paint roller. The scratch coat should be applied using a trowel or notched trowel.

6. System Description

The following information is valid for substrate and floor temperatures in the range of 15 °C to 23 °C. Both higher and lower temperatures will affect the filler ratio, consumption per square meter.

Primer:

HEGGEL Pox 495, Transparent

Consumption: ~ 0.3 - 0.4 kg/m²

Intermediate Coat (Scratch Coat):

HEGGEL Pox 495 + quartz sand mixture in ratio of 1: 0.8 (parts by weight)

Note: Mixture consists of quartz powder (< 0.06 mm) and quartz sand (0.06 - 0.3 mm) in a mixing ratio of 1:1.4.

Consumption: ~ 0.45 kg/m²

Once cured, the surface may be refinished using the HEGGEL WHG floor coating systems.

HEGGEL Pox 495 can be used for many other applications, for instance, for scratch coat (not WHG system):
Consumption: ~ 0.6 kg/m² binder+ dried quartz sand 0.1 – 0.3 mm.

Epoxy Resin Mortar: ~ 1 kg binder + 8.0 - 12.0 kg quartz sand 0-4 mm.

EP Screed: Filler ratio and layer thickness are selected based on application and load. For example, a 10 mm liquid-tight EP screed may be filled at a ratio of: ~ 1:7 with quartz sand 0-4 mm.

Note: UV radiation can cause discoloration.

7. Chemical Resistance

Resistance testing is recommended based on the specific service conditions.

Resistant to the following substances:

- Water / wastewater
- Mineral oils
- Saline solutions
- Lubricants and fuels
- Diluted acids
- Alkalis

8. Safety Measures

Avoid inhaling vapours and prevent contact with skin. Wear appropriate protective clothing, gloves, and eye / face protection. Ensure adequate ventilation in the working area. In case of skin contact, wash immediately with plenty of soap and water. If contact occurs with the eyes, rinse thoroughly with plenty of water and seek medical attention. Do not eat, drink, or smoke while using the product, and keep away from sources of ignition.

The material safety data sheets of the individual components, the safety instructions on the packing (label) as well as the legal requirements for handling hazardous materials must be observed.

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