

EPOXY RESIN GROUT

EH196R EPOXY RESIN GROUT (0-0.5 mm)

TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › Product acc. to EN 13813 "Synthetic resin screed"
- › Company certification acc. to DIN EN ISO 9001:2015

PROPERTIES

- › Pourable epoxy resin grout
- › Very good flow behaviour
- › After a few hours already loadable
- › Good adhesion to steel surfaces
- › Frictional bond
- › Does not require a bonding layer under normal substrate conditions and is directly poured onto the prepared concrete surface or rust-free steel surface
- › Very high compressive and shear strengths
- › High static and dynamic load capacity
- › Vibration-reducing
- › Impermeable to water
- › Resistant to alkaline solutions, weak acids and mineral oils
- › Resistant up to a service temperature of 70 °C - high resistance to temperature changes
- › Filler premixed with base resin and evacuated in vacuum

AREAS OF APPLICATION

- › Grouting
 - Of rail and ribbed plates
 - In case of low layer thicknesses
 - Of galvanised steel components and non-iron-metals
 - Of precision bearings
 - Of bearing supports for high racks
 - Of pumps, compactors and compressors in the chemical industry
 - Of noise protection wall posts and bearing plates in the road and bridge construction sector
 - Between steel plates
 - Of measuring sensors in concrete carriageways
- › Fillings of scratches and shrinkage cavities of concrete substrates for the subsequent reaction resin coatings

TECHNICAL DATA

TYPE		EH196R	
Grain size	mm	0-0.5	
Layer thickness	mm	6-50	
Mixing ratio	Resin:Hardener 10:1		
Consumption approx.	kg/(m ² · mm)	1.8	
Density (23 °C/50 % rel. air humidity)	kg/m ³	1,800	
Measure of extension	cm	≥ 30	
Flow channel	cm	≥ 60	
Processing time approx.	10 °C	min	40
	20 °C	min	30
	30 °C	min	20
Recoatable	10 °C	h	24-36
	20 °C	h	10-20
	30 °C	h	8-15
Minimum processing temperature at the substrate	°C	10	
Compressive strength*	5 h	N/mm ²	≥ 70
	8 h	N/mm ²	≥ 90
	1 d	N/mm ²	≥ 100
	7 d	N/mm ²	≥ 110
	10 d	N/mm ²	≥ 110
Bending tensile strength*	5 h	N/mm ²	≥ 10
	8 h	N/mm ²	≥ 20
	1 d	N/mm ²	≥ 30
	7 d	N/mm ²	≥ 35
	10 d	N/mm ²	≥ 40
Adhesive pull strength	7 d	N/mm ²	≥ 1,5
Modulus of elasticity (static)	7 d	N/mm ²	≥ 13,000

* Testing of bending tensile and compressive strength in accordance with DIN EN 196-1

Storage: 12 months. Cool, dry, free from frost. Unopened in its original container.

Packaging: 2-K packaging (Base resin with filler + hardener) 15 kg hobbock

Hazard class: Observe safety data sheet.

PHYSIOLOGICAL BEHAVIOUR AND SAFETY MEASURES:

The plastic material is harmless after curing. Read and observe the safety information on the container before processing. Wash any contamination off the skin using plenty of water and soap. We recommend the compliance with the BG leaflet BGR 227 "Tätigkeiten mit Epoxidharzen" (Activities with epoxy resins). When not cured, do not allow to escape into drains, water or soil. Absorb any spilled material immediately, e.g. using sawdust. Dispose of the containers as specified under the current waste and waste disposal regulations.

PROCESSING

SUBSTRATE:

EH196R EPOXY RESIN GROUT is suitable for all mineral substrates. The concrete substrate must be dry, slightly roughened, and loadbearing. The preparation is carried out with a shot-blasting with solid blasting abrasives, shot peening or chamber blasting, until a sufficient surface tensile strength has been achieved and the grain structure has been exposed. A sufficient average surface tensile strength ($\geq 1.5 \text{ N/mm}^2$) must be ensured. The residual moisture of the concrete substrate must not exceed 4%. The temperature of the concrete substrate must be at least 3 °C above the ambient dew point temperature. The concrete substrate to be coated must be protected against rising moisture. Apart from that, the DBV data sheet "Anwendung von Reaktionsharzen im Betonbau, Teil 2: Untergrund" (Application of reactive resins in concrete construction, part 2: substrate) applies.

BONDING AGENT:

In general, a bonding layer is not required, only with difficult and highly absorbing concrete substrates a priming with the **EH1** EPOXY RESIN (see technical data sheet) is recommended.

MIXING:

The components resin + filler (A) and hardener (B) are supplied at a predetermined mixing ratio in a hobbock. Add the hardener completely to the component A and mix thoroughly with a mechanical agitator at max. 200 rpm (slowly running drill with stirrer). Avoid the intermixing of air. After a mixing time of 3 to 5 minutes, pour the mixture into a clean vessel and thoroughly stir again. Before pouring, leave the mixture to stand for another 5 minutes until the mixed in air has escaped.

CASTING:

Pour the epoxy resin grout without interruptions into the prepared formwork, coated with a release agent, until the required filling level is met.

CURING:

In addition to the ambient temperature, the component temperature is of particular importance when processing reactive plastic material. In high ambient temperatures, the chemical reactions are sped up, in low temperatures they are delayed. In order for the reactive plastic material to fully cure, the mean temperature of the substrate must always be higher than the minimum temperature.

CLEANING:

Clean equipment and tools with **EH CLEANER AND THINNER**.