PAGEL®

PAGEL®-EPOXY RESIN GROUT

EH196R

PROPERTIES

- **Load-bearing after only a few hours**
- **Pourable** epoxy resin grout
- **Pre-mixed** filler with trunk resin and de-aerated in a vacuum
- **Excellent flow behaviour**
- **Watertight**
- **Good adherence** to steel surfaces
- Statically and **dynamically high load-bearing** capacity
- Very high compressive and shear strength
- **Vibration-reducing**
- **Frictional connection**
- Does not need an **adhesion layer** on a normal base and is applied directly to the prepared concrete surface or rust-free steel surface
- **Resistant** to lyes, light acids and mineral oils
- Resistant up to a service temperature of 70°C – high resistance to temperature changes

FIELDS OF APPLICATION

- Grouting for track plates and ribbed slabs
- Grouting for thin layers
- Grouting for galvanised steel parts and non-ferrous metals
- Grouting for precision bearings
- Grouting for automated warehouse supports
- Grouting for pumps, coagulants and compressors in the chemical industry
- Grouting for noise barrier posts and base plates in road and bridge construction
- Grouting between steel plates

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TECHNICAL DATA

TYPE			EH196R
Grain size		mm	0-0,5
Layer thickness		mm	6–50
Mixing ratio			
resin : hardener		= M:	10:1
Density at 23°C/50% r.h. of air		kg/dm³	1,80
Slump		cm	> 30
Measure of flow		cm	65
Pot life	10 °C	min.	app. 40
	20 °C	min.	app. 30
	30 °C	min.	app. 20
Reworkable	10 °C	h	24–36
	20 °C	h	10–20
	30 °C	h	8–15
Minimum processing temperature at the underground		h	°C 10
Bending strength (at 20°C)	5 h	N/mm²	12
	8 h	N/mm²	> 23
	12 h	N/mm²	> 23
	10 d	N/mm²	> 23
Compressive strength* (at 20°C)	5 h	N/mm²	80
	8 h	N/mm²	100
	12 h	N/mm²	110
	1 d	N/mm²	120
	3 d	N/mm²	130
	7 d	N/mm²	135
	10 d	N/mm²	140
Adhesive strength	7 d	N/mm²	> 2
Elastic modules (static)	7 d	N/mm²	13.000

All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.

* DIN EN 196-1-compliant compressive strength testing

Storing: 12 months when kept dry & cool in original sealed containers
Packaging: 15 kg containers
Hazard category: See safety data sheet

PHYSIOLOGICAL BEHAVIOUR AND SAFETY MEASURES

The plastic is harmless when hardened. Read and follow the warning on the container before using. If it comes into contact with skin, clean thoroughly with plenty of water and soap. We recommend reading the BG Data Sheet BGR 227 “Handling Epoxy resins. Do not allow to drain into sewerage systems, open waters or ground soil in an unhardened state.
Remove any spilt material immediately using sawdust, for example. Dispose of containers in accordance with current waste management laws.

PROCESSING

BASE: EH196R PAGEL – EPOXY RESIN GROUT is suitable for all mineral bases. The concrete base must be firm, dry, fine-grained and bondable. It should be prepared by blasting with solid blast materials, shot or chamber blasting until the surface has the required bending strength and the grain structure is revealed. The surface bending strength must be maintained (average > 1.5 N/mm²). The residual moisture of the concrete base must not exceed 4% and must be at least 3°C above dew point temperature and the concrete base protected against rising damp. See also the DBV Data Sheet “Utilisation of Reactive Resins in Concrete Constructions, Part 2: Bases".

ADHESION LAYER: An adhesion layer is not normally needed. For difficult and very porous bases we recommend applying a primer coat of EH1 PAGEL – EPOXY RESIN (see technical specifications).

MIXING: The components resin + filler (A) and hardener (B) are delivered in a container in the correct ratio for mixing. Add all the hardener to component A and mix thoroughly with a mechanical mixer at max. 200 rev/min (slow drill with stirrer). Avoid mixing in air. After c. 3-5 minutes mixing pour into clear container and mix again thoroughly. Allow to stand for 5 minutes before using to allow the trapped air to escape.

POURING: Pour the epoxy resin grout in a continuous stream into the prepared formwork coated with a separating agent until the required filling height is reached.

HARDENING: When handling reactive plastics the temperature of the structural part is very important as well as the ambient temperature. At higher ambient temperatures the chemical reaction times are speeded up, at low temperatures they are delayed. For the reactive plastic to harden fully, the average temperature of the base must be higher than the lowest minimum temperature.

CLEANING: Clean tools and equipment with EPOXY RESIN THINNER.

Technical Ref. Sheet **1524 GB**
QS-Formblatt 01/11 Rev. 08

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