



EPOGROUT HS

High Strength Epoxy Resin Grout

Technical Data Sheet

Composition and Application Field

EPOGROUT HS is a three-component, solvent-free, high solid-content, easy-to-mix, free-flowing epoxy grout that contains pure aggregates to provide high compressive strength. **EPOGROUT HS** is formulated for high dynamic loads under different application conditions. **EPOGROUT HS** is designed for grouting of gap widths up to 100mm and height up to 300 mm.

Uses

EPOGROUT HS is used when high load and high compressive strength are required such as fixing bolts, piles head waterproofing, machine base plates, cranes basement and for filling holes, gaps and cavities of concrete.

Typical applications include the following:

- Cracks of concrete surface.
- Bedding Anchors.
- Pile head treatment and capsulation.
- Industrial facilities.
- Electrical substations and plant rooms.
- Heavy duty workshops, garages and rail ways.
- Heavy cranes.
- Bottling plants and breweries.

Advantages

- Easy to mix and apply. High compressive strength.
- High tensile and flexural strengths. Low exothermic curing.
- Waterproofing properties. Non-permeable.
- Non-shrinkage curing. Low VOC.

Surface Preparation

Use foam rubber strips or mastic sealant between joints and beneath the formwork to insure a leak-proof structure. Concrete surfaces should be clean, dry and free from dust, oil, grease or any loose materials. All surfaces must be completely dry. Defective concrete surfaces or those containing excessive laitance should be grinded down to a sound base. When placement of the steel base plate is expected to be delayed, it is recommended to coat the underside and edges with **PRIME EPS** to protect against rust formation and confirm the bonding with **EPOGROUT HS**.

Mixing

Pour the contents of the hardener container into the base container and mix thoroughly at low speed. The base and hardener mixture should then be transferred into a plastic pail; immediately start the addition of the filler part while mixing. Mix for at least 3 minutes until a homogenous pourable grout is obtained. Mix the components in the quantities supplied making sure the hardener container is clean. Do not add solvent thinners at any time.

Application Method

After mixing is completed, all mixed material must be used within the allowable pot life. Once the mixed material has lost some of its flowability, it must be immediately discarded.

To avoid air entraining, pour the material from one direction. Maintain the hydrostatic head during pouring in order to insure a continuous grout front.

Curing

Good curing is essential for resin based materials to ensure specified performance. Install using **EPOGROUT HS** systems can be opened to foot traffic after approximately 24 hours at 25 °C. Complete cure is achieved after 72 hours at 25 °C.

Coverage

It depends on the dimensions

Cleaning

Tools and equipment can be cleaned immediately by using **THINNERCOAT 10** organic solvent.

Package

14 liter pack (including colored base, and hardener).

Technical Properties

Mixed Density	1.95 + 0.05
Volume Solids ASTM D 2823-91	100% ± 1
Application Temperature	12°C to 45°C
Pot life	2 hours at 20°C 1 hour at 35°C
Initial Flowability @ 35°C	120 mm by cone
Water permeability DIN 1048	Nil
Bonding Strength ASTM D541	>3.0 N/mm ² (concrete failure)
Minimum Service Temp. Maxim. Service Temp.	10°C 80°C
Ultimate Compressive Strength (ASTM C109)	>90 N/mm ²
Tensile Strength ASTM D 638	15 N/mm ²
Flexural Strength ASTM D 638	25 N/mm ²

Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 18 months in tightly closed container.

Flammability

EPOGROUT HS is nonflammable material. **THINNERCOAT 10** is flammable. Do not expose to naked flames during application.

Safety Precaution

The application of material should be in good ventilation and avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of eye contact, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.