EVI VERNICI
PAINTS & COATING SOLUTIONS

CONSTRUCTION CHEMICALS DIVISION

Technical Data Sheet

EPOGROUT HS

High Strength Epoxy Resin Grout

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 & height up to 300 mm. Epogrout HS is used when high load and high compressive strenght 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 capsolation
- 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 Preperation

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 hardener container into the base container and mixed 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 and continue to mix for at least 3 minutes until a homogenous pourable grout is obtained. Mix the components in the quantities supplied taking care to scrap the hardener container 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. Installation 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.
In general, 1.4 m2/ per pack at 10 mm thickness.

Cleaning

Tools and equipment can be cleaned immediately by using Thinnercoat 10.

Packing

14 Ltr pack

Technicals Properties

Mixed Density	1.95 ± 0.05
Volume Solids	100%
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
Min. Service Temp.	10°C
Max. Service Temp.	80°C
Ultimate Compressive Strength (ASTM C109)	>90 N/mm2
Tensile Strength ASTM D 638	15 N/mm2
Flexural Strength ASTM D 638	25 N/mm2

Storage and Shelf Life

Product should be stored at 25°C in dry conditions and keeping away from source of flame. Lasts12 months in tightly closed container.

Flammability

Epogrout HS is nonflammable material. Thinnercoat 10 is flammable so do not expose to naked flames during application.

Safety Precuation

The application of material should be in good ventilation and avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, 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 standard ISO 14001 and OHSAS 18001.

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