

## **EPOGROUT HS**

### **High Strength Epoxy Resin Grout**

#### **DESCRIPTION**

**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.

#### **USE**

**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**.

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate and application, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RITVER Technical Service Department.

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#### **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**

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.

#### **CLEANING**

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

#### **PACKAGE**

14 Liler pack (including base, hardener and filler).

#### **STORAGE**

Product should be stored at 25°C in dry conditions and keeping away from source of flame.

#### **FLAMMABILITY**

**EPOGROUT HS** is nonflammable material.

**THINNERCOAT 10** is flammable so do not expose to naked flames during application.

#### **SHELF LIFE**

12 months in tightly closed container.

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#### **TECHNICAL PROPERTIES**

Test	Result
Mixed Density	1.95 ± 0.05
Volume Solids	100 %
Application Temperature	12 °C to 45 °C.
Pot Life	2 hour at 20 <sup>0</sup> C 1 hour at 35 <sup>0</sup> C
Initial flowability @ 35°C	120 mm by cone
Water permeability DIN 1048	Nil
Bonding strength ASTM D541	> 3.0 N/mm <sup>2</sup> (concrete failure)
Minim. Service Temp. Maxim. Service Temp.	10°C 80°C
Ultimate Compressive Strength (ASTM C109)	> 90 N/mm <sup>2</sup>
Tensile Strength ASTM D 638	15 N/mm <sup>2</sup>
Flexural Strength ASTM D 638	25 N/mm <sup>2</sup>

#### **HEALTHY AND SAFETY**

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 standards ISO 14001 and OHSAS 18001.