EPODURE HS

High Strength Epoxy Grout

DESCRIPTION

EPODURE HS is a high-performance epoxy resin group possessing excellent flow properties, suitable for placement in gap widths between 5mm and 75mm. It is a three-component product consisting of a base component, curing agent and aggregate component. EPODURE HS cures to form an extremely high strength grout with exceptional mechanical properties, making it suitable for use in the most demanding situations. When cured it exhibits excellent chemical resistance and is resistant to sea water. It has excellent resistance to freeze-thaw cycles.

USES

EPODURE HS is used for precision grouting of components, particularly where there is a dynamic load. Such applications include, machine bases, turbine bases, rail track base plates, crane rails and other critical load applications. Its chemical resistance makes it particularly suitable for application in chemical plants and oil refineries.

ADVANTAGES

- Excellent compressive strength.
- Resistant to dynamic loads.
- Excellent chemical resistance.
- Primer-less application.
- Very good flow properties.

Property	Value
Colour	Grey / Brown
Compressive Strength @ 20°C	78 MPa @ 1 Day 91 MPa @ 7 Days
Flexural Strength @ 20°C	35 MPa @ 7 Days
Tensile Strength @ 20°C	14 MPa @ 7 Days
Pot Life @ 20°C	20 Mins
Application Temperature	5°C to 30°C
Service Temperature	-15°C to 30°C

PROCEDURE

Surface Preparation: Concrete surfaces should be free from surface laitance, dust, oil, grease and other deleterious materials. Steel surfaces should be free from rust. The area to be grouted should be free from standing water and dry to touch. Form work should be constructed around the component to be grouted, taking special care to ensure that the form is fully grout tight to prevent leakage. A suitable silicone-based release agent should be applied to the form work to prevent bond of the grout to the form. Alternatively, a polythene sheet maybe used to line the form.

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Mixing: The base component and the curing agent, should be mixed thoroughly, using a slow speed drill paddle mixed until homogeneous. The aggregate component should then be slowly added to the mix and mixing should continue for a further 2 mins until the aggregate is fully dispersed throughout the resin. Ensure that the mixing head is always kept below the surface of the grout, to prevent excessive air entrainment.

Application: The mixed EPODURE HS should be allowed to stand for at least 5 minutes to allow for the release of any trapped air. The grout should then be poured continuously into the prepared form work, ensuring that placement is from one side of the form work only. When multiple units of grout are used, then they should be mixed and poured continuously. EPODURE HS is suitable for placement in gap widths between 5mm and 75mm, for greater widths then consult the Premcrete technical department. The placed grout should remain undisturbed until fully hardened.

Curing: EPODURE HS will have hardened sufficiently after 24hrs at 20^0C for a load to be applied.

Equipment Cleaning: Tools and equipment should be cleaned immediately using PREMCRETE CLEANING SOLVENT.

PACKAGING & COVERAGE

Pack Size: EPODURE HS is supplied in a 26 Kg pack.

Yield: A 26 Kg pack will yield 12.5 ltrs of mixed material.
Coverage: 1 pack will cover, 1.25 m^2 at 10mm thick.

STORAGE & SHELF LIFE

EPODURE HS should be stored in unopened containers, at temperatures between 10^0C and 30^0C. When stored in unopened containers, the product will have a shelf life of 12 months.

HEALTH & SAFETY

See separate material safety datasheet