BUILDING TRUST

PRODUCT DATA SHEET

Parex Epoxy Thixotropic Injection Grout

Epoxy Thixotropic Injection Grout is a Thixotropic Two-Part Epoxy Resin System

DESCRIPTION

Parex Epoxy Thixotropic Injection Grout is a thixotropic two-part epoxy resin system.
The base resin component is thixotropic, with a low viscosity liquid hardener.
Parex Epoxy Thixotropic Injection Grout may be placed using suitable mortar gun, or injected using a suitable hand or mechanical pump.
Grouting of gap dimensions of 0.1mm to 10mm may be achieved without the use of grout tight shuttering.
The two-part system gives rapid strength gain obtaining mechanical properties several times those of high quality concrete.
The Product is non-shrink, enabling complete fill of the grouting area.
The hardened grout is resistant to most chemicals, stable to sea water, petroleum products and resists freeze thaw cycles.

USES

Parex Epoxy Thixotropic Injection Grout may only be used by experienced professionals.

Filling and bonding of cracked concrete where grout leakage may occur. Structural support where thin section grouting is required without the use of shuttering.

Suitable for:

- Sections difficult to fully shutter.
- Crack injection applications.
- Filling and bonding of cracked concrete.
- Structural support where thin section grouting is required.
- Structural support where dynamic load resistance is required.
- Bonding of lifted floor toppings.

FEATURES

- Thixotropic.
- Can be placed without the need for grout tight shuttering.
- High mechanical strength.
- Good adhesion to most construction materials (i.e. concrete, masonry, stone, steel, wood, etc.).
- Easy to use.
- Can be placed with a suitable hand or mechanical pump.
- Suitable for grouting and sealing the narrowest of gaps (as thin as 0.1mm).
- Can be used to fill cracks, fissures and voids up to 10mm.
- Non-shrink.
- Application temperature range +5°C to +30°C.
- High early strength gain.
- Hardened grout is resistant to most chemicals, sea water and petroleum products.
- Can provide structural support where dynamic load resistance is required.
- Can be used to fill and bond cracked concrete.
- Hardened grout resists freeze-thaw cycles.
- Solvent free.
- Available in a convenient 1.191kg size.

CERTIFICATES AND TEST REPORTS

Parex Epoxy Thixotropic Injection Grout has been tested in accordance with the relevant parts of BS 6319.

PRODUCT INFORMATION

Packaging	1.191kg packs
Shelf life	24 months
Storage conditions	Store in unopened packs and keep in dry conditions at a temperature of between 5°C and 45°C. Storage at higher temperatures and high humidity may reduce shelf life.
Density	~1100 kg/m³
Viscosity	Thixotropic
Compressive strength	**Age (Days)** 1 3 7 **Compressive Strength (N/mm²)** ~50 ~60 ~70 N.B. Typical properties at 20°C.
Modulus of elasticity in compression	3.6 kN/mm²
Flexural-strength	~58 N/mm²
Tensile strength	~26 N/mm²
Shear strength	~55 N/mm² (Slant Shear Strength)
Yield	Each 1.191kg pack will yield approximately 1 litre of mixed material.
Application time	**Temperature (°C)** 5 10 20 30 **Useable Time (minutes)** 80 45 25 10 N.B. Typical properties at 20°C.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

SUBSTRATE PREPARATION

Ensure that grouting surfaces are free from dust and oily contamination.
Small gaps may be blown out using clean, dry compressed air.
Steel should be free of rust and flaking mill scale.
All work surfaces must be essentially dry.

MIXING

Pour all of the hardener from the small bottle into the base container which has sufficient volume to act as the mixing vessel.
Thoroughly mix the two components until a homogenous thixotropic product is achieved, approximately 2-3 minutes.

APPLICATION

The use of a shutter is recommended although the shutter need not be completely grout tight.
The Parex Epoxy Thixotropic Injection Grout will 'stay' once the placing pressure is released.
The shutter may be constructed from timber and sealed using a rapid mortar (e.g. Parex Rapid Mortar Light) or a suitable silicone sealant.
Apply a silicone based release agent to the formwork surfaces which will enable release after the grout has hardened.
Alternatively, use thick polyethylene sheet.

Crack Injection

Drill and fix suitable injection tubes at approximately 300mm centres along the crack-line for fixing the tubes and facing up the crack (Sikadur-31+ is a suitable product for this purpose).
Allow prepared crack system to harden, approximately 6 hours at 20°C.
Use a low pressure pump to inject the mixed grout, starting at the lowest point of the crack and work upwards to the highest point sealing off each injection point in turn.

Place the mixed grout within the useable time as given in the *Application time* section.
At the end of the useable time the mix will start to generate a great deal of heat.
At this time, any unused material should be mixed with sand to reduce the heat output and discarded.
Allow grout to cure for at least 24 hours. Cut off external parts of injection tubes and make good with a suitable product (like Parex Epoxy Putty LS or Sikadur-31+).

CURING TREATMENT

No special curing practice is required.

CLEANING OF EQUIPMENT

Clean all tools and application equipment using the Sika® Thinner C in accordance with the Product Data Sheet. Hardened material can only be mechanically removed.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

SIKA LIMITED
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited