

PRODUCT DATA

STRUCTO-INJECT 1380 STANDARD EPOXY INJECTION RESIN

PRODUCT DESCRIPTION

Structo-Inject 1380 is a 2-component, solvent-free injection resin with low viscosity for injection into cracked concrete.

APPLICATION

Structo-Inject 1380 is Stonhard's standard injection resin and is used for structural repair of cracks in concrete columns, beams, wooden spans, anchoring threaded rods in concrete, cracks in masonry, etc.

CHARACTERISTICS

- Low viscosity.
- Good penetration, even into hairline cracks.
- Very good adhesion to concrete, wood and metal. It can be used in unfavorable conditions including low temperatures.
- Exceptional mechanical characteristics.
- Rapid-hardening.

PROCESSING

Structo-Inject should be applied by pressure injection with a mechanical pump at a mixing ratio of A/B = 2:1. The crack should be sealed with fast cure mortar and equipped with injection tubes. When the mortar has hardened sufficiently to resist the injection pressure, application of the Structo-Inject 1380 can start. Inject up to pressures of \pm 8-10 bars.

PACKAGING

- A-Component: 2 x 10 kg
- B-Component: 10 kg
- Weight of the Mixture: 30 kg

CLEANING

Unreacted product can be removed with acetone or with cleaning agent PC 5900. Hardened resin can only be removed by mechanical means.

PRECAUTIONS AND SECURITY MEASURES

- Ensure sufficient ventilation while injecting.
- Avoid contact with skin and eyes.
- Wear protective gloves, clothes and glasses.
- Prevent all contact of Structo-Inject 1380 with water.
- See Safety Data Sheet for more information.

NOTES

- Safety Data Sheets for Structo-Inject 1380 products are available upon request.
- A staff of Technical Service Engineers is available to assist with installation or to answer questions related to Structo-Inject 1380 products.

TECHNICAL DATA (Typical Values)

A-Component	<ul style="list-style-type: none"> • Appearance: Yellow Transparent Liquid • Density: 1.156 g/ml • Viscosity (20°C): 660 mPas
B-Component	<ul style="list-style-type: none"> • Appearance: Yellow Transparent Liquid • Density: 1.156 g/ml • Viscosity (20°C): 660 mPas
Mixture	<ul style="list-style-type: none"> • Appearance: Red Liquid • Density: 1.121 g/ml • Initial Viscosity (20°C): 620 mPas
Density of the Cured Material	1.135 g/cm ³
Evaluation of Reactivity at 20°C	Time needed for a mixture of 600g Structo-Inject 1380 A and 300g Structo-Inject 1380 B to rise from 20°C to 40°C: 25 minutes
Mixing Ratio	2 kg A / 1 kg B
Compressive Strength (EN 12190, after 7 day cure at 20°C)	97 N/mm ²
Modulus of Elasticity (DIN 53452, after 7 day cure at 20°C)	2596 MPa
Flexural Strength (DIN 53452, after 7 days at 20°C)	82.3 N/mm ²
Tensile Strength (EN ISO 527, after 7 days at 20°C)	59.1 N/mm ²
Shrinkage (EN 12617-2)	2.61%
Injectability into a Dry Sand Column (EN 1771, 0.1 mm - 0.3 mm)	Easy to inject
Adhesion of the Injected Product: Tensile Strength of the Adhesion (EN 12618-2)	Cohesive break in concrete
Adhesion of the Injected Product: Slant Shear Strength (EN 12618-3)	Monolithic failure in the substrate
Adhesion to Concrete (EN 1542)	>3.0 N/mm ² (rupture in concrete)
Glass Transition Temperature (EN 12614)	64.2°C

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- For worldwide availability, additional product information and technical support, contact your local sales representative, or call Stonhard at (800) 263.3112.

TECHNICAL DATA (Typical Values)

Application Temperature	Minimum 5°C, maximum 30°C (both ambient and substrate)
Shelf Life	24 months after production date in the original, unopened and undamaged packaging. Structo-Inject 1380 should dry stored between 10°C and 30°C

Important:

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