

# 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 StonCor's standard injection resin and is used for structural repair of cracks in concrete pillars, 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.

TECHNICAL DATA (Typical Values)	
<b>A-Component</b>	<ul style="list-style-type: none"><li>• Appearance: Yellow Transparent Liquid</li><li>• Density: 1.156 g/ml</li><li>• Viscosity (20°C): 600 mPas</li></ul>
<b>B-Component</b>	<ul style="list-style-type: none"><li>• Appearance: Red Liquid</li><li>• Density: 1.058 g/ml</li><li>• Viscosity (20°C): 660 mPas</li></ul>
<b>Mixture</b>	<ul style="list-style-type: none"><li>• Appearance: Red Liquid</li><li>• Density: 1.121 g/ml</li><li>• Initial Viscosity (20°C): 620 mPas</li></ul>
<b>Density of the Cured Material</b>	1.135 g/cm <sup>3</sup>
<b>Evaluation of Reactivity at 20°C</b>	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
<b>Mixing Ratio</b>	2 kg A / 1 kg B
<b>Compressive Strength</b> (EN 12190, after 7 day cure at 20°C)	97 N/mm <sup>2</sup>
<b>Modulus of Elasticity</b> (DIN 53452, after 7 day cure at 20°C)	2596 MPa
<b>Flexural Strength</b> (DIN 53452, after 7 days at 20°C)	82.3 N/mm <sup>2</sup>
<b>Tensile Strength</b> (EN ISO 527, after 7 days at 20°C)	59.1 N/mm <sup>2</sup>
<b>Shrinkage</b> (EN 12617-2)	2.61%
<b>Injectability into a Dry Sand Column</b> (EN 1771, 0.1 mm - 0.3 mm)	Easy to inject
<b>Adhesion of the Injected Product: Tensile Strength of the Adhesion</b> (EN 12618-2)	Cohesive break in concrete
<b>Adhesion of the Injected Product: Slant Shear Strength</b> (EN 12618-3)	Monolithic failure in the substrate
<b>Adhesion to Concrete</b> (EN 1542)	>3.0 N/mm <sup>2</sup> (rupture in concrete)
<b>Glass Transition Temperature</b> (EN 12614)	64.2°C

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

## 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 ± 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 Material Safety Data Sheet for more information.

## NOTES

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

### Important:

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