

Technical Data Sheet

StoJet IHL

Two components, solvent free low viscosity epoxy injection resin

Characteristics

Area of application

- Structural repair of cracked concrete by injection
- Repair and filling of small hairline cracks in reinforced concrete structures
- Injection of construction joint on pre-stressed concrete members at tendon couplings
- Consolidation of friable and porous stones
- Designed for use in higher temperature and slower-curing injection requirement
- Primer for solvent free coating / topping where dampness occur
- Steel-plate bonding

Properties

- Extremely low viscosity
- Resistant to a wide range of chemicals
- Impermeable to water and gases
- Good adhesion to substrates
- High compressive and tensile strength
- High slant shear bond strength
- Slow-curing system that permits product to be used as an impregnation layer ensuring that the concrete is well penetrated and capillaries well filled
- Can cure in both wet or dry conditions

Application method

- Apply by roller / squeegee as a primer or injection method when repairing cracks.

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Criteria	Standard / test specification	Value / Unit	Notes
Mixing ratio A : B		3 : 1 pbw 5 : 2 pbv	
Density		1.06 g/cm ³	
Solids content		100 %	
Viscosity	ASTM D445	2.9 Poise	
Adhesive strength on concrete after 7 days		Concrete failure	
Compressive strength	ASTM C579	70 N/mm ²	
Slant shear bond strength	ASTM C882	16.8 N/mm ²	
Flexural strength	ASTM C580	43 N/mm ²	
Shore D hardness	DIN 53505	85	
E Modulus	DIN 53457	3400 N/mm ²	
Coefficient of thermal expansion		5.5 x 10 ⁻⁵ /k	
Elongation at break	DIN 53455	4 %	
Tensile strength	ASTM C307	22 N/mm ²	

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

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Application	
Substrate preparation	<p>The substrate to be treated must be sound, dry and free from any contaminants which may prevent good adhesion.</p> <p>If necessary, the surface should be prepared by mechanical means (when used as a primer).</p>
Material Preparation	<p>Stir the individual components of StoJet IHL thoroughly.</p> <p>Pour both components into a mixing vessel and mix for approximately 5 minutes using slow-speed drill and paddle until a homogeneous mixture is obtained.</p> <p>Transfer the contents to a clean container and re-mix. Use the product as quickly as possible after mixing.</p>
Placing Procedure	<p><u>As a primer:</u></p> <p>StoJet IHL can be applied by means of a roller or squeegee.</p> <p>If necessary, scatter the freshly applied layer with Sto Filler 30/60 @ approximately 1.0kg/m²; otherwise remove surface gloss with a mechanical grinder.</p> <p><u>As an injection system for crack repair:</u></p> <p>Prepare surface by removing laitance, dust, paint, skim coat etc, along the crack for a width of approximately 50mm.</p> <p>Attach the injection nipple by applying a bead of Sto epoxy crack sealer on the back and then stick it at approximately 300mm c/c along the crack.</p> <p>Seal the remaining parts of the cracks with Sto epoxy crack sealer. It should be applied in strips of approximately 50mm width and 2mm thickness along the length of the crack.</p> <p>Allow the sealer to cure overnight.</p> <p>Begin injection at the lowest nipple upward or from one end of the crack if it is horizontal. Once StoJet IHL has fully cured/hardened, remove the injectors and sealer by grinding</p>
Working life	<p>At 10 °C approx. 2 hours</p> <p>At 23 °C approx. 90 minutes</p> <p>At 30 °C approx. 45 minutes</p>
Curing time	<p>Overcoat 0 – 12 hours</p> <p>Full cure 7 days</p>
Consumption	<p>When use as a primer, coverage rate is approximately 200 - 300g/m², depending on porosity of the substrate</p>
Application Temperature	<p>Minimum application temperature + 15°C</p> <p>Maximum application temperature + 45°C</p>
Cleaning Tools	<p>Tools must be cleaned immediately after use with thinner</p>
Delivery	
Colour	<p>Colourless</p>
Packing	<p>StoJet IHL is available in 1kg, 4kg and 15kg set.</p>

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Storage

Storage Life & Condition This product has a shelf life of 12 months from the manufacturing date.
 Product should always be stored in an unopened bag, dry place, protected from rain, direct sunlight and raised off the floor.

Special notes

Health & Safety Please refer to Safety Data Sheet

Technical Support Please consult the local sales office for further information and any site assistance required.

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.

Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on www.sto-sea.com.

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*Product images may differ from the actual product.