

Technical Data Sheet

StoJet IHL

Two-components, solvent free,
low viscosity epoxy injection resin

Characteristics

Functionality	<ul style="list-style-type: none"> • 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	Apply by roller / squeegee as a primer or injection method when repairing cracks.
--------------------	---

Area of use

- 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

Technical data

Data	Criteria	Test Standard	Value	Unit
	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 values stated are average values. Due to the use of natural raw material in our products, the actual value determined on an individual delivery may deviate slightly, without compromising product suitability.

Technical Data Sheet

StoJet IHL

Application

Substrate preparation	The substrate to be treated must be sound, dry and free from any contaminants which may prevent good adhesion. If necessary, the surface should be prepared by mechanical means (when used as a primer).
Material preparation	Stir the individual components of StoJet IHL thoroughly. 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. Transfer the contents to a clean container and re-mix. Use the product as quickly as possible after mixing.
Coating procedure	<u>As a primer:</u> StoJet IHL can be applied by means of a roller or squeegee. If necessary, scatter the freshly applied layer with Sto Filler 30/60 @ approximately 1.0kg/m ² , otherwise remove surface gloss with a mechanical grinder. <u>As an injection system for crack repair:</u> Prepare surface by removing laitance, dust, paint, skim coat etc, along the crack for a width of approximately 50mm. 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. 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. Allow the sealer to cure overnight. 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.
Working life	At 10°C approx. 2 hours At 23°C approx. 90 mins At 30°C approx. 45 mins
Curing time	Overcoat 0-12 hours Full cure 7 days
Consumption	When use as a primer, coverage rate is approximately 200 - 300g/m ² , depending on porosity of the substrate.
Application temperature	Minimum application temperature +15°C Maximum application temperature +45°C
Cleaning of tools	Tools must be cleaned immediately after use with thinner.
Delivery	
Colour	Colourless
Packing	StoJet IHL is available in 1kg, 4kg and 15kg set.

Technical Data Sheet

StoJet IHL

Storage

Storage life/conditions The shelf life of StoJet IHL is approximately 12 months if stored in cool dry conditions.

Special notes

Safety Precautions After full curing, StoJet IHL is physiologically harmless. Keep the resin and hardener away from eyes, mouth and skin. Do not inhale vapour. Protective gloves should be used when handling these product. If skin contact with resin occurs, cleaned immediately with soap and plenty of water. DO NOT use solvent. The use of goggles is recommended, however, should accidental eye contamination occur, rinse thoroughly with plenty of clean running water and seek medical treatment immediately.

Technical Support

Please consult Sto Technical Service Department or the local sales office for further information and any site assistance required.

Disclaimer

Sto Products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions. Whilst efforts are made to ensure that any advice, recommendation, specification or information STO SEA may give is accurate and correct, it cannot accept any liability either directly or indirectly arising from the use of its products as it has no direct or continuous control over where or how the products are applied, whether or not in accordance with any advice, specification, recommendation or information given by it. If any product fails to conform, STO SEA will replace the product at no cost to the buyer. Replacement of any products shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within six months from the date of the claimed breach. Buyers shall be solely responsible for determining the suitability of products for their intended use.

Sto SEA Pte Ltd
 159 Sin Ming Road
 #06-02 Amtech Building
 Singapore 575625
 Phone : +65 6453 3080
 Fax : +65 6453 3543
 info.sg@sto.com
 www.sto-sea.com

Sto SEA Sdn Bhd
 No. 15 Jalan Teknologi PJU 3/3AA
 Surian Industrial Park Kota Damansara,
 47810 Petaling Jaya, Selangor Malaysia
 Phone : +60 3 6156 7133
 Fax : +60 3 6156 7133
 info.sg@sto.com
 www.sto-sea.com

StoCretec GmbH
 Gutenbergstr. 6
 D-65830 Kriftel
 Germany
 Phone : +49 6192 401 104
 Fax : +49 6192 401 105
 stocretec@sto.com
 www.stocretec.de