StoCretec
Building with conscience.

Technical Data Sheet

StoPox IH BV

(formerly known as StoJet IH BV)
Two components solvent free, epoxy resin

Characteristics

Area of application

- Structural repair of cracked concrete by injection
- Repair and filling of small hairline cracks in reinforced concrete structures
- Primer for solvent-free coating/topping systems
- Sealer for cement-based surfaces
- Steel-plate bonding

Properties

- Low viscosity
- Economical
- Resistant to wide range of chemicals
- Virtually impermeable therefore protecting the concrete against carbonation
- High compressive and tensile strength
- High slant shear bond strength

Application method

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

Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Mixing ratio A : B		3 : 1 pbw 5 : 2 pbw	
Density	ASTN D1475	1.07 g/cm^3	
Solids content		100 %	
Viscosity	ASTM D445	4.9 Poise	
Adhesive strength on concrete after 7 days		Concrete failure	
Compressive strength	ASTM C579	65 N/mm^2	
Slant shear bond strength	ASTM C882	>11.0 N/mm^2	
Flexural strength	ASTM C580	40 N/mm^2	
Shore D hardness	DIN 53505	85	
E Modulus	DIN 53457	2400 N/mm^2	
Coefficient of thermal expansion		7.5 x 10^{-5} /k	
Elongation at break	DIN 53455	4 %	
Tensile strength	ASTM C307	20 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.

Technical Data Sheet

StoPox IH BV

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/sealer, the maximum moisture content of the substrate should be < 4%, and the pull-off strength of pre-treated substrate should be > 1.5 N/mm^2.
Material Preparation	Stir the individual components of StoPox IH BV 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.
Placing Procedure	<u>As a primer or sealer:</u> StoPox IH BV can be applied by means of a squeegee, roller or sprayed in one layer as a primer or two layers as a sealer. If necessary, scatter each freshly applied layer 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 StoPox IH BV has fully cured/hardened, remove the injectors and sealer by grinding.
Working life	At 10 ^{o}C approx. 2 hours At 23 ^{o}C approx. 90 hours At 30 ^{o}C approx. 45 hours
Curing time	At 23 ^{o}C Tack free 6 hours Retouchable 24 hours Overcoat 24 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

Technical Data Sheet

StoPox IH BV

Cleaning Tools	Tools must be cleaned immediately after use with thinner
Delivery	
Colour	Colourless
Packing	StoPox IH BV is available in 1kg, 4kg and 15kg set.
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.

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 3/3A
Surian Industrial Park Kota Damansara,
47810 Petaling Jaya, Selangor Malaysia
Phone : +60 03 6156 6133
Fax : +60 03 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
info.sg@sto.com
www.sto-sea.com