

Technical Data Sheet

StoPox KSH thix

EP corrosion protection and bonding agent



Characteristics

Area of application

- as protection against corrosion for reinforcing steel
- as a bonding agent to ensure a permanent bond between the concrete substrate and the subsequent concrete repair system

Properties

- epoxy-resin-bound protection against corrosion, and bonding agent (PC), very good adhesive strength on reinforcing steel, very good protection against corrosion, very good adhesive strength on concrete substrate

Information/notes

- product is in accordance with EN 1504-7
- repair mortar in the stress resistance class M 2 / PCI, PCII or also ZTV-ING PC O, PC U
- component of the StoCretec system in accordance with the DAfStb (German) Repair Guideline 2001-10

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength (28 days)	EN 1542	> 2,0 MPa	
Shore hardness type D	DIN 53505-D/EN ISO 868	77 - 83	
Density (mixture 23 °C)	EN ISO 2811	1,70 - 1,80 g/cm ³	

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.

Substrate

Requirements

Requirements on the substrate:
The substrate must be dry, load-bearing, and free from native and foreign release agents.
Remove less strong layers and laitance.

Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. The moisture content may not exceed 4 CM per cent for concrete qualities up to C30/37 and max. 3 CM per cent for C35/45 concrete, measured with a calcium carbide meter.

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Substrate temperature higher than +8 °C and 3 K above dew point.

Average bond strength: 1.5 N/mm²

Bond strength, lowest single value: 1.0 N/mm²

Preparations

Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting.

Prepare the reinforcing steel by compressed air blasting with a solid blasting abrasive (cleanliness grade Sa 2 1/2 in accordance with EN ISO 12944 Part 4).

Application

Application temperature

Lowest application temperature: +10 °C
Highest application temperature: +30 °C

Time for application

At +10 °C: approx. 120 minutes
At +23 °C: approx. 30 minutes
At +30 °C: approx. 15 minutes

Mixing ratio

component A : component B = 100.0 : 11.1 parts by weight

Material preparation

Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions. Stir Component A, then add all of Component B. Mix thoroughly with a slow-running paddle mixer (max. 300 rpm) until a homogeneous, streak-free compound develops. It is also vital to stir thoroughly at the sides and the bottom in order to evenly distribute the hardener. Mixing time at least 3 minutes. Do not apply from the delivery container! After mixing, transfer the material into a clean container and stir it thoroughly once again.

Coating build-up

- 1) Substrate preparation
- 2) Protection against corrosion StoPox KSH thix
- 3) Protection against corrosion (second coat) and bonding agent using StoPox KSH thix
- 4) Reprofiling mortar StoPox Mörtel standfest

Application

- 1) Substrate preparation

- 2) Corrosion protection

Immediately after derusting, use a paint brush/brush to apply StoPox KSH thix as protection against corrosion to the reinforcement.

Consumption up to Ø 18 mm: approx. 100 g/m, from Ø 18 mm: 120 g/m

- 3) Protection against corrosion (second coat) and bonding agent

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After a waiting time of 4 - 24 hours at a normal temperature, apply StoPox KSH thix as a bonding agent. Use a paint brush/brush to apply the material to the reinforcing steel and the clean, dry area of spalling in the concrete.

Consumption up to Ø 18 mm: approx. 0.5 - 0.8 kg/m², from Ø 18 mm: 0.6 - 0.9 kg/m²

4) Repair mortar

Apply the repair mortar StoPox Mörtel standfest to the fresh bonding agent within 30 minutes. In accordance with the Technical Data Sheet.

Consumption 1.7 kg/m²

Cleaning the tools

Clean with StoDivers EV 100 immediately after use.

Notes, recommendations, special information, miscellaneous

The declaration(s) of performance can be obtained from the StoCretec Technisches InfoCenter
General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.

The minimum material consumption is defined by the tested system!

Delivery

Packaging

Box

Article number	Name	Container
14167/002	StoPox KSH thix Combi red brown	9 kg combi
14166/002	StoPox KSH thix Combi grey green	9 kg combi

Storage

Storage conditions

Store in dry and frost-free conditions. Protect from direct sunlight.

Storage life

In the original container until ... (see packaging).

Certificates/approvals

Z-36.1-87	GUT-00001001
Z-36.12-86	GUT-00001002
Z-36.12-88	Sto S&P CFK Lamella, slotted

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Identification

Product group Protection against corrosion

GISCODE RE55

Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.

You will receive an EU Safety Data Sheet with your first order.

Please observe the information regarding the handling of the product, its storage, and disposal.

Handling epoxy resins: "Praxisleitfaden für den Umgang mit Epoxidharzen", (Practical guide for handling epoxy resins) and

test report: "Prüfbericht zur Schutzwirkung von acht

Chemikalienschutzhandschuhen gegenüber EP-Beschichtungen" (Test report on the protective effect of eight chemical protective gloves against EP coatings),

Gloves: "Handschuhe für den Umgang mit lösemittelfreien Epoxidharzen" (Gloves for handling solvent-free epoxy resins), and

Protective gloves: "Die richtige Anwendung von Schutzhandschuhen" (The correct use of protective gloves)

<https://www.bgbau.de/themen/sicherheit-und-gesundheit/gefahrstoffe/umgang-mit-epoxidharzen/>

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Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung"

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Special notes

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

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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 the Internet.

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