

EP mortar, layer thickness of 4-20 mm

CE	JE+s°c

} € *^{30°C} *



Characteristics	
Area of application	 as concrete repair product for the repair of concrete structures (concrete and reinforced concrete) as bonded screed in interiors for levelling the substrate for subsequent structural strengthening for forming fillets
Properties	• epoxy-resin-bound concrete repair product (PC), very good adhesion strength on the concrete substrate, good application overhead, good non-sag properties, high protection against stress from frost/de-icing salt, very quickly over-coatable, very high impermeability, very high mechanical resistance, solvent-free
Information/notes	 product is in accordance with EN 1504-3 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
	Compressive strength		60 MPa	in line with EN 12190
	Maximum particle size		1.2 mm	
	Bond strength (28 days)	EN 1542	> 2.0 MPa	
	Static modulus of elasticity	EN 13412	19 GPa	
	Coefficient of thermal expansion	EN 1770		16.5 x 10^ -6 / K
	Density (mixture 23 °C)	EN ISO 2811	1.82 - 2.00 g/cm³	
	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 subst	rate:		



	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.
	Average bond strength: 1.5 N/mm ² Bond strength, lowest single value: 1.0 N/mm ²
Preparations	Prepare the substrate using a suitable mechanical process, such as abrasive blasting or high-pressure water blasting (> 800 bar). Open pores and blow-holes sufficiently.
	Bevel the edges of the areas of spalling under approx. 45°.
	Steel: cleanliness grade Sa 2 1/2 - metallic bright in accordance with DIN EN ISO 12944-4
Application	
Application temperature	Lowest application temperature: +8 °C Highest application temperature: +30 °C
Time for application	At +10 °C: approx. 90 minutes At +23 °C: approx. 60 minutes at +30 °C: approx. 30 minutes
Mixing ratio	Component A : component B = 39.0 : 1.0 parts by weight
Material preparation	 StoPox Mörtel standfest is delivered in the correct mixing ratio. Shake the B container thoroughly and set it aside. Use a slow-running paddle mixer (max. 60 rpm) to loosen the contents of the A container. Add all the contents of the B container to the A container. The temperature of the two components when mixing should be at least +15 °C. Mix thoroughly with a slow-running paddle mixer (max. 60 rpm) until a streak-free compound develops and a uniform grey colour shade is achieved (approx. 3 - 5 min. max.). Do not stir StoPox Mörtel standfest intensively for more than 5 minutes due to the special extender used. For larger quantities, using a compulsory mixer is
	recommended. Mix very thoroughly! It is also vital to stir thoroughly at the sides and the bottom to ensure that the hardener spreads up and down evenly.



		igain.	
Consumption	Type of application	Approx. cor	nsumption
	per mm layer thickness	1.7	kg/m²
	Material consumption depends on the appli among other factors. The stated consumpti- guide. If required, determine precise consum- specific project.	cation, substrate, and convalues are only to be mption values on the ba	onsistency, a used as a usis of the
Coating build-up	Concrete repair 1) Substrate preparation 2) Protection against corrosion StoPox KSH thix 3) Protection against corrosion (second coat) and bonding agent using StoF KSH thix 4) Repair mortar StoPox Mörtel standfest Layer thickness per application cycle: Layer thickness 4 - 20 mm for horizontal and vertical surfaces Layer thickness 4 - 10 mm overhead Higher layer thicknesses are possible due to multi-layer work. When doing same apply StoPox KSH thix as a bonding agent each time.		sing StoPox n doing so,
Application	Concrete repair:		
	1) Substrate preparation		
	 Corrosion protection Immediately after derusting, use a paint bru protection against corrosion to the reinforce 	ish/brush to apply StoPo ment.	ox KSH thix as
	Consumption of StoPox KSH thix: approx.	100 g/m	
	3) Protection against corrosion (second coar After a waiting time of 4 - 24 hours at a norr thix as a bonding agent. Use a paint brush/ reinforcing steel and the clean, dry area of second states.	it) and bonding agent mal temperature, apply brush to apply the mate spalling in the concrete.	StoPox KSH rial to the
	Consumption of StoPox KSH thix: approx.).5 - 0.8 kg/m²	
	4) Repair mortarApply the repair mortar StoPox Mörtel stand30 minutes. In accordance with the Technic	dfest to the fresh bondir al Data Sheet.	ig agent withir
	Consumption of StoPox Mörtel standfest: a	pprox 1.7 kg/mm layer t	hickness

Do not apply from the delivery container! After mixing, transfer the material into a clean container and stir it thoroughly once again.

Rev. no.: 3 / EN /StoCretec./. 09.05.2023 / PROD0194 / StoPox Mörtel standfest



	In the case of multi-layer application, apply the bonding agent StoPox KSH thix each time.				
	If applying solvent-free coatings and sealing coats later on, scatter the fresh mortar with kiln-dried quartz sand 0.3 - 0.8 mm.				
	Consumption of StoC	Consumption of StoQuarz 0.3 - 0.8 mm: approx. 0.5 - 1.0 kg/m ²			
	Dust-dry: after approx. 3 hours.				
	Ready for foot traffic	and over-coatable: after approx.	over-coatable: after approx. 24 hours		
	Mechanically resistant after approx. 7 days				
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.				
Delivery					
Colour shade	grey				
Packaging	pail and tin				
	Article number	Name	Container		
	14171/017				
	14171/017	StoPox Mortel standfest Combi	25 kg combi		
	14171/017	StoPox Mörtel standfest Combi StoPox Mörtel standfest Combi	25 kg combi 10 kg combi		
Storage Storage conditions	14171/017 14171/016 Store in dry and frost	StoPox Mörtel standfest Combi StoPox Mörtel standfest Combi	25 kg combi 10 kg combi light.		
Storage Storage conditions Storage life	14171/017 14171/016 Store in dry and frost In the original contair	StoPox Mörtel standfest Combi StoPox Mörtel standfest Combi -free conditions. Avoid direct sun her until (see packaging).	25 kg combi 10 kg combi light.		
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Storage Storage conditions Storage life Certificates/approvals	14171/017 14171/016 Store in dry and frost In the original contair Z-36.1-87	StoPox Mortel standfest Combi StoPox Mörtel standfest Combi -free conditions. Avoid direct sum ner until (see packaging). GUT-00001001	25 kg combi 10 kg combi light.		

Sto S&P CFK Lamella, slotted

Rev. no.: 3 / EN /StoCretec./. 09.05.2023 / PROD0194 / StoPox Mörtel standfest

Z-36.12-88



Identification	
Product group	Repair mortar
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/
	Published by: BG BAU - Berufsgenossenschaft der Bauwirtschaft Hildegardstraße 29/30, 10715 DE-Berlin Tel. (+49) 30 85781-0, Fax. (+49) 800 6686688-37400, www.bgbau.de
	Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung"
	Published by: Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (BAuA) Friedrich-Henkel-Weg 1-25, 44149 DE-Dortmund Tel. (+49) 231 9071-0, Fax. (+49) 231 9071-2454, E-mail: poststelle@baua.bund.de, homepage: www.baua.de
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 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.

Rev. no.: 3 / EN /StoCretec./. 09.05.2023 / PROD0194 / StoPox Mörtel standfest



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.

StoCretec GmbH Gutenbergstr. 6 D-65830 Kriftel

Tel.: +49 6192 401-104 Fax: +49 6192 401-105 stocretec@sto.com www.stocretec.de

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