

EP mortar resin, low-emission

CE



Area of application	 interior and exposed to the weather 		
	• on floors		
	 as mortar resin for epoxy resin screeds 		
	 for production areas in industrial sectors, e.g: the food-processing industry 		
	mechanical engineering industry, automotive industry		
Properties	Iow-emission		
	 high resistance to abrasion and weathering 		
	 in combination with StoQuarz AS, it can be smoothed using a trowel 		
	 temperature-resistant up to approx. +100 °C dry heat 		
	 can be cleaned for a short period with superheated steam at +120 °C, if 		
	permanently wet: maximum +60 °C		
Appearance	transparent, yellowish		
Information/notes	product is in accordance with EN 13813		
	 various test certificates 		

Technical data

	Criterion	Standard / test specification	Value/ Unit	Notes
	Bond strength	EN 1542	> 2.0 MPa	
	Compressive strength	EN ISO 12190	80 MPa	mortar (1:8)
	Flexural strength	EN ISO 178	27 MPa	mortar (1:8)
	Viscosity (at 23 °C)	EN ISO 3219	700 - 750 mPa.s	Binder
	Density (23 °C)	EN ISO 2811	1.07 g/cm ³	Binder
	Abrasion resistance according to Taber device	EN ISO 5470-1	74 mg	CS 10/1000U/1000g
	The characteristic values stated are average values or approximate values. Due the natural raw materials in our products, the stated values can vary slightly in t same delivery batch; this does not affect the suitability of the product for its intended use.			ry slightly in the
Substrate				
Requirements	Requirements on the substra	ite:		



	 Dry, load-bearing Free from separating, native, or foreign substances Remove weak layers. Remove any accumulation of fine concrete particles on the surface. Dry substrate: Depends on the compressive strength class Dry according to the definition contained in the DAfStb (German) Repair Guideline, issue 2001-10.
	Moisture content: - Measure the moisture content of the concrete substrate with a calcium carbide meter. - Moisture content for concrete qualities up to C30/37: max. 4 weight per cent - Moisture content for concrete qualities up to C35/45: max. 3 weight per cent
	Substrate temperature: at least +10 °C, 3 K above the dew point Bond strength, average: 1.5 N/mm² Bond strength, lowest single value: 1.0 N/mm²
Preparations	Prepare all the above-mentioned substrates using a mechanical method, see "Substrate, requirements". Example: - Shot-blasting - Milling followed by shot-blasting - Abrasive blasting
Application	
Application temperature	minimum temperature: +10 °C maximum temperature: +30 °C
	Relative humidity: maximum 75 % at +10 °C maximum: 85 % at +30 °C
Time for application	at +20 °C: approx. 20-25 minutes
Mixing ratio	component A : component B A : B 100.0 : 45.0 parts by weight
Material preparation	Put the sand mixture in the compulsory mixer. Then add the mixed binding agent and mix until homogeneous.
	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 is at least 3 minutes. After mixing, pour the compound into a clean container and mix again. Do not apply from the delivery container! The temperature of the individual components must be min. +15 °C when mixing.
Coating build-up	 A: Repair mortar for partial areas of spalling: 1) Prepare the substrate. 2) Priming: StoPox GH 205 / StoPox MH 100 3) Scatter: StoQuarz 0.6-1.2 mm 4) Repair mortar: StoPox MH 100 with StoQuarzsandmischung
	 B: Liquid-tight epoxy resin screed for normal industrial stress. 1) Prepare the substrate. 2) Priming: StoPox GH 205 3) Scatter: StoQuarz 0.3-0.8 mm 4) Epoxy resin screed: StoPox MH 100 with StoQuarzsandmischung 5) Sealing coat (optional): StoPox MH 100
Application	A: Repair mortar for coarse areas of spalling.
	1) Substrate preparation
	2) Prime using StoPox GH 205 Apply StoPox GH 205 with a rubber squeegee, flooding until the substrate is totally free of pores, and then evenly spread the material by rolling/brushing. Avoid forming puddles.
	consumption: approx. 0.2 - 0.3 kg/m ² , depending on the roughness of the substrate
	Waiting time until the next coating: maximum 48 hours. If necessary, scatter with StoQuarz 0.6 - 1.2 mm, consumption approx. 0.5 - 1.0 kg/m²
	 Reprofiling Produce and introduce the repair mortar into the freshly primed area of spalling manually, using a smoothing trowel.
	The following sand mixtures have proven to work well: (Areas of spalling, depth: 10 - 50 mm): 11 parts by weight special extender StoBallotini (*); 18 parts by weight quartz sand 0.1 - 0.5 mm; 35 parts by weight quartz sand 1.0 - 1.7 mm; 36 parts by weight quartz sand 3.5 - 7.0 mm;



mixing ratio resin: aggregate = 1:14 parts by weight material consumption: approx. 150 g/m² and mm layer thickness (StoPox MH 100) Other sand mixtures and grain sizes are also possible. However, the composition of the aggregate mixture should be within the favourable range indicated in DIN 1045. (*) Can be ordered at: Potters Ballotini GmbH, Morschhelmer Straße 11, 67292 Kirchheimbolanden Tel. +49 6352 84 84, Fax +49 6352 18 53 B: Liquid-tight epoxy resin screed for normal industrial stress. 1) Substrate preparation 2) Prime coating of StoPox GH 205 Apply StoPox GH 205 with a rubber squeegee, flooding until the substrate is totally free of pores, and then evenly spread the material by rolling/brushing. Avoid the formation of puddles. Material consumption: approx. 0.3 - 0.5 kg/m², depending on the absorption capacity of the substrate. Scatter kiln-dried quartz sand, graining 0.6 - 1.2 mm, over the fresh prime coating. consumption: approx. 0.5 - 1.0 kg/m² Do not scatter too thickly. 3) Produce and apply the epoxy resin screed, consisting of: 1 part by weight StoPox MH 100 and 6 to 8 parts by weight StoQuarz AS (quartz sand particle size with graded particle fraction, maximum particle size approx. 3 mm). Distribute the mixture using a screed box, then compact and smooth with a plastic trowel or a power trowel. Only mix the amount of material that can be applied within the pot life. Material consumption: StoPox MH 100 approx. 0.23 kg/m² per mm of layer thickness. Total mixture: approx. 2.0 kg/m² per mm layer thickness Layer thickness: normally 10 - 15 mm 4) Increasing the slip resistance (optional) Apply StoPox MH 100 filled 1:1 parts by weight with StoQuarz 0.1-0.2 mm. consumption: approx. 0.3 kg/m² (StoPox MH 100), approx. 0.3 kg/m² (StoQuarz 0.1-0.2 mm)



		e coating with StoQuarz 0.3-0. uired slip resistance class).	8 mm or StoQuarz 0.6-1.2 mm
	Consumption: approx.	0.5 - 0.8 kg/m ² , depending on	the scatter grain
	Then seal again using	StoPox MH 100 for optimal gi	ain integration.
	Consumption: approx.	0.5 - 0.8 kg/m², depending on	the scatter grain
	however, impair the te	osure to chemicals, discoloura chnical function of the coating ccurs under UV stress does n	
Drying, curing, ready for next coat	Reworking time: at +20 °C: approx. 14-	24 h	
	Full load-bearing capa mechanically after 7 d chemically after 28 da	ays	
Cleaning the tools	Clean tools with StoDi	vers EV 100 or StoCryl VV.	
Notes, recommendations, special information, miscellaneous	Frequent thermal stres become matt, discolou	ss and chemical exposure: vis iration.	ual changes may occur, e.g.
		n oxide red) can be used for co v of approx. 0.1 weight per cen	
	Observe the general a - see www.stocretec.d - see technical manua	-,	
	Declaration of performance, CE marking: - declaration of performance: see www.stocretec.de - The abrasion resistance specified in the declaration of performance refers to the smooth, not scattered covering.		
Delivery			
Packaging	tin pail		
	Article number	Name	Container
	68105/003	StoPox MH 100 Set	10 kg set



	68105/002	StoPox MH 100	600 kg set
	68105/001	StoPox MH 100	25 kg set
Storage			
Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight.		
Storage life	The product quality is best guaranteed in its unopened original container until its shelf life has expired. This information is included in the batch number on the container. Explanation of batch nos.: digit 1 = last digit of the year, digits 2 + 3 = calendar week, example: 2450013223 - storage life ends at week 45 in 2022 See product packaging		

Identification	
Product group	Coating
Safety	This product is subject to compulsory labelling in accordance with the current EU regulation.

Observe the Safety Data Sheet!

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.

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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