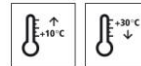


Technical Data Sheet

StoPox MS 200

Epoxy resin water-based coating material, matt,
low-emission



Characteristics

Area of application

- interior areas and areas exposed to weathering
- for cementitious substrates
- magnesite, mastic asphalt, and calcium sulphate screeds
- as a coloured sealing coat for industrial flooring and traffic areas
- as a matting sealing coat for (old) EP coatings, mastic asphalt screeds, and hard PUR coatings

Properties

- water vapour permeable (class I)
- very good adhesion to the substrate
- very good wetting on dense substrates and on existing coatings
- very good scratch and wear resistance

Appearance

- matt

Information/notes

- formerly StoPox WE Mattsiegel
- not suitable for surfaces subject to high mechanical stress
- product is in accordance with EN 1504-2
- product is in accordance with EN 13813

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	250 - 450 mPa.s	Mixture
Density (mixture 23 °C)	EN ISO 2811	1.20 - 1.27 g/cm ³	
Abrasion resistance according to Taber device	EN ISO 5470-1	29 mg	CS 10/1000U/1000g, approx.
Water vapour permeability class	EN ISO 7783	Class I (high)	Classification in accordance with DIN EN 1504-2

Technical Data Sheet

StoPox MS 200

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

The substrate must be dry, load-bearing, and free from native and foreign release agents. Remove weak layers and laitance.

Coating requirements for cementitious substrates:

Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. Residual moisture may amount to max. 4 wt% for concrete in strength classes up to C30/37 and max. 3 wt% for C35/45 concrete, measured with a calcium carbide meter.

Coating requirement for mastic asphalt screeds:

Hardness class at least IC 40 in accordance with EN 13813, at least 75 % of the aggregate must be exposed

Substrate temperature higher than +10 °C and 3 K above dew point.

Average bond strength 1.5 N/mm²

Lowest single bond strength value 1.0 N/mm²

Special expert knowledge is required for assessing magnesite and calcium sulphate screeds.

Preparations

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

Apply a levelling coat for roughness depths > 0.5 mm

Application

Application temperature

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

Time for application

At +10 °C: approx. 60 minutes
At +20 °C: approx. 45 minutes
At +30 °C: approx. 30 minutes

Mixing ratio

Component A : component B = 100.0 : 40.0 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

Technical Data Sheet

StoPox MS 200

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 at least +15 °C when mixing.

Consumption	Type of application	Approx. consumption
	as a sealer, depending on the substrate	0.15 - 0.25 kg/m ²
Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.		

Coating build-up

Industrial floor coating suitable for light mechanical stress.

- 1) Substrate preparation
- 2) Prime coating of StoPox MS 200
- 3) Sealing coat of StoPox MS 200
- 4) Floor finish using StoDivers P 105 / StoDivers P 120 (optional)

Application

Industrial floor coating for light mechanical stress on mineral substrates and mastic asphalt

(Roughness depth < 0.5 mm; for roughness depths > 0.5 mm it is usually not possible to use a sealing coat to obtain a smooth surface)

1) Substrate preparation

2) Prime coating of StoPox MS 200

StoPox MS 200 can be diluted with up to 10 % water depending on the substrate and application conditions.

Consumption: approx. 0.15 - 0.25 kg/m² per application cycle

3) Sealing coat of StoPox MS 200

Apply StoPox MS 200 undiluted using a nylon roller (pile length 13 - 14 mm, e.g. Sto-Varnish Roller Nylon RS 13) in a criss-cross pattern.

Depending on the colour shade, 1 - 2 application cycles are required.

Apply the material evenly. Using a paint grid in the application container is recommended.

Consumption: approx. 0.15 - 0.25 kg/m² per application cycle

StoPox MS 200 can be sprayed using the airless spray method.

Please contact our Technical Info Center (Tel. +49 6192-401104) with regard to this type of application.

Technical Data Sheet

StoPox MS 200

Depending on the colour shade and substrate, several application cycles of StoPox MS 200 may be necessary to achieve homogeneous hiding power.

4) Floor finish using StoDivers P 105/StoDivers P 120 (optional)

When the industrial flooring is clean and has cured, evenly apply a thin layer of floor finish. Apply the material using a pre-dampened, lint-free mop. Leave the floor to dry sufficiently, approx. 20 - 30 min.

Carry out the second application cycle at right angles (perpendicular) to the previous application. It is very important to observe the specified drying times between application cycles. Depending on the expected stress, several application cycles may be necessary.

Consumption: approx. 30 - 50 ml/m² per application cycle

Avoid direct sunlight, high temperatures, and draughts during application. (See cleaning and care instructions)

Sealing coat on old and new epoxy resin thick coatings, as well as hard polyurethane resin thick coatings.

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Consumption: approx. 30 - 50 ml/m² per application cycle

Technical Data Sheet

StoPox MS 200

Notes:

Not suitable for areas subject to high mechanical stress.

Using floor finish products considerably increases the gloss level of StoPox MS 200.

Ensure sufficient ventilation when applying water-based coating systems. However, avoid draughts. Different layer thicknesses, too high humidity, and too low temperatures (< +10 °C) can lead to visual defects, e.g. differences in the gloss levels.

Depending on exposure to chemicals, discolourations can occur. These do not, however, impair the technical function of the coating.

The layer thickness for sealing coats is normally < 0.5 mm and decreases as a result of mechanical use. This should be taken into account with regard to the required service life.

If the product is used in exteriors, the surface may yellow and chalk due to the material.

StoPox MS 200 does not have any crack-bridging properties.

Component A of StoPox MS 200 is not compatible with component B of the StoPox WB / WL / WG products

The milky white colour of component B makes the colour shade initially appear significantly lighter after mixing. The final colour shade is only achieved after complete curing.

Drying, curing, ready for next coat

Reworking time:
At +10°C: approx. 24 h
At +20°C: approx. 12 h
At +30°C: approx. 8 h

Cleaning the tools

Clean with water.

Notes, recommendations, special information, miscellaneous

The Declaration(s) of Conformity can be obtained from the StoCretec Technisches InfoCenter
General application instructions can be found at www.stocretec.de (Products) and in the latest issue of the "Technical Data Sheets" manual, in the appendix.

The abrasion resistance class specified in the CE marking refers to the smooth, not scattered covering.

Highly pigmented colour shades outside the grey area (e.g. intense red, blue, or yellow shades) are normally subject to a higher pigment abrasion and might also

Technical Data Sheet

StoPox MS 200

become brighter during long-term contact with water.
 If this is to be avoided, we recommend applying an additional transparent sealant, e.g. StoPox WL 100 transparent (gloss) or StoPox WL 150 transparent (matt). Please take into account that this may lead to possible changes in the slip-resistant properties.
 A temporary protective effect can also be achieved by using StoDivers P 105 and P 120 floor finish.
 The maximum material consumption per application cycle is 250 g/m². This may not be exceeded as it can otherwise lead to stress cracks in the sealing coat.

Delivery

Colour shade wide colour shade variety, RAL colour fan, StoColor System – limited colour choice

Packaging pail and tin

Storage

Storage conditions Store in dry and frost-free conditions; avoid direct sunlight.

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

Identification

Product group Water-based coating material

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.
 Practical guide for dealing with epoxy resins: "Sicherer Umgang mit Epoxidharzen in der Bauwirtschaft".
 And
 Test report on the protective action of chemical protective gloves against epoxy resin coatings: "Handschuhe für lösemittelfreie Epoxidharz-Systeme" and "Schutzhandschuhe: Richtig anwenden"
www.bgbau.de/gisbau/fachthemen/epoxi

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 Berufsgenossenschaft der Bauwirtschaft
 Hildegardstrasse 28-30, 10715 DE-Berlin
 Tel. (+49) 30 85781-0, Fax. (+49) 30 85781-500, www.bgbau.de

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

Technical Data Sheet

StoPox MS 200

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Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (BAuA)
Friedrich-Henkel-Weg 1-25, 44149 DE-Dortmund
Tel. (+49) 231 9071-2071, Fax. (+49) 231 9071-2070
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.

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