

Technical Data Sheet

StoPma RZ 500

PMMA wearing course for tested multi-storey car park surface protection systems



Characteristics

Area of application

- interior
- exposed to the weather
- on floors
- as a component of the tested surface protection system OS 8.16

Properties

- rapid curing
- low viscosity
- mechanical resistance
- can be filled on-site with StoQuarz AS 300 in the mixing ratio 1:1.5

Information/notes

- product is in accordance with EN 1504-2
- product is in accordance with EN 13813

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Viscosity (at 23 °C)	DIN 53018	130 - 170 mPa.s	
Density (23 °C)	EN ISO 2811	0,98 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

General:

- Dry, load-bearing
- Free from separating, native, or foreign substances
- Remove weak layers and any laitance.

Dry substrate:

- Depends on the compressive strength class
- Dry in accordance with the definition in EN 1504-10

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 CM per cent

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- Moisture content for concrete qualities up to C35/45: max. 3 CM per cent

Substrate temperature: at least +0 °C, 3 K above the dew point

Bond strength, average: 1.5 N/mm²

Bond strength, lowest single value: 1.0 N/mm²

Concrete or cementitious screed:

- Test the compatibility with the respective substrate.

- Additives and curing compounds can lead to incompatibility.

Preparations

1) 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

substrate and air temperature
 minimum temperature: 0 °C
 maximum temperature: +30 °C

Application temperature:
 minimum temperature: 0 °C
 maximum temperature: +30 °C

Time for application

At +20 °C: approx. 15 minutes

Mixing ratio

The amount of radical starter required depends on the temperature of the material and the substrate.

30 °C: 1.0 weight per cent StoPma KAT 300 (200 g/20 kg pail)

20 °C: 2.0 weight per cent StoPma KAT 300 (400 g/20 kg pail)

10 °C: 4.0 weight per cent StoPma KAT 300 (800 g/20 kg pail)

0 °C: 5.0 weight per cent StoPma KAT 300 (1000 g/20 kg pail)

Material preparation

1) Stir the material.

Note: The paraffin must spread evenly.

2) Add the StoQuarz AS 300 quartz sand and mix thoroughly, mixing ratio: 1:1.5

3) Add the radical starter.

4) Mix the components.

Paddle mixer: slow running mixer, max. 300 rpm

Mixing time: at least 1 minute

5) Apply the mixture immediately.

Consumption

Type of application

Approx. consumption

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as a wearing course (mixture)	1,5	kg/m ²
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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

- 1) Prepare the substrate.
- 2) Priming: StoPma GH 500
- 3) Scatter: StoQuarz 0.6-1.2 mm
- 4) Intermediate layer: StoPma RZ 500
- 5) Scatter: StoQuarz 0.3-0.8 mm
- 6) Sealing: StoPma DV 500

Application

- 1) Prepare the substrate.
- 2) Priming:
 - StoPma GH 500
 - Flood apply the product. Tools: rubber squeegee
 - Rework the product with a roller and spread evenly.
 - consumption: approx. 0.3-0.5 kg/m², depending on the absorption capacity of the substrate
 - Note:
 - Avoid the formation of puddles.
 - Prime the floor up to saturation.
 - A closed film of resin is necessary for curing.
 - Prime strongly absorbent substrates with multi-layers and wet on wet.
- 3) Scatter:
 - StoQuarz 0.6-1.2 mm
 - Do not scatter an excess of the fresh prime coating.
 - Consumption: approx. 1.5 kg/m²
 - Remove the unbound quartz sand.
- 4) Applying a wearing course:
 - StoPma RZ 500
 - Mixing ratio:
 - 1.0 part by weight of StoPma RZ 500
 - 1.5 part by weight of StoQuarz AS 300
 - Apply the product filled with quartz sand. Tools: squeegee, unnotched
 - Spread the product evenly. Tools: roller sleeve
 - mixture consumption: approx. 1.5 kg/m²
 - Consumption of StoPma RZ 500: approx. 0.6 kg/m²
 - consumption of StoQuarz AS 300: approx. 0.9 kg/m²
 - Recommendation: Scatter heavily stressed surfaces according to the grain size, e.g. with DUROP or with granite chippings from Röhrig. see <http://www.roehrig-granit.de>

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- consumption of StoQuarz 0.3-0.8 mm: approx. 4-5 kg/m²
- consumption of DUROP or granite chippings: approx. 5-6 kg/m²

5) Sealing:

- StoPma DV 500 or StoPma DV 500 transparent
- Remove the unbound quartz sand.
- A sealing coat is possible after 60 minutes.
- Spread the product quickly and evenly. Tools: rubber squeegee
- Rework the product with a roller. Tools: short-pile roller sleeve
- minimum consumption: 0.4-0.6 kg/m²
- Do not go below the minimum consumption.

Notes:

Colour shade deviation:

- Exposure of the chemicals may cause discolourations, which do not, however, impair the technical function of the coating. Especially colour shades with organic pigments.
- Adjacent surface protection systems with a different sealant, e.g. StoPox DV 100: colour shade deviations may occur even if the same colour choice is made.

Sealing coat:

- layer thickness: < 0.5 mm
- Mechanical use reduces the layer thickness. This can shorten the service life.
- Depending on the inclination, colour shade, and hiding power, two application cycles may be required.

Cleaning the tools	Clean tools with StoDivers EV 100 or StoCryl VV. Leave tools to air-dry for 30 minutes before using again.
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Notes, recommendations, special information, miscellaneous	1) Observe the general application instructions: - see www.stocretec.de , Products - see technical manual, notes
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Delivery

Colour shade	grey, it is not possible to guarantee colour consistency
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Packaging	Pail
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Article number	Name	Container
00133-001	StoPma RZ 500	20 kg pail

Storage

Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight. Avoid temperatures above +25 °C.
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Storage life	The product quality is best guaranteed in its unopened original container until its
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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

GISCODE RMA10

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.

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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