Technical Data Sheet
StoPma RZ 500

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

Characteristics

Area of application

- interior areas and areas exposed to weather conditions
- on floor areas
- as a component of the tested surface protection system OS 8.16

Properties

- rapid curing
- workable from 0 °C to 30 °C
- low viscosity
- mechanical resistance
- can be filled on-site with StoQuarz AS 300 (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/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

Concrete or cementitious screed: admixtures and curing compounds can lead to incompatibility. Test the compatibility of StoPma GH 500 with the respective substrate at the project site.

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. Substrate temperature higher than 0 °C and 3 K above dew point. Average bond strength 1.5 N/mm² Lowest single bond strength 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.

Application

Application temperature	Lowest application temperature: 0 °C Highest application temperature: +30 °C
Time for application	at +20 °C: approx. 15 minutes
Mixing ratio	The amount of catalyst 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	Stir StoPma RZ 500 thoroughly to evenly distribute the paraffin. Then mix in StoQuarz AS 300 thoroughly (mixing ratio 1 : 1.5) and add exactly the right amount of catalyst. Mix thoroughly with a slow-running paddle mixer (maximum 300 rpm). Mixing time at least 1 minute. Apply immediately.
Consumption	Type of application: as a wearing course (mixture) — Approx. consumption: 1.5 kg/m² 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	StoCretec surface protection system OS 8.16 1) Substrate preparation 2) Prime coating of StoPma GH 500 3) Wearing course of StoPma RZ 500 4) Sealing coat of StoPma DV 500

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Application

StoCretec surface protection system OS 8.16
1) Substrate preparation

2) Prime coating of StoPma GH 500
Flood-apply the mixed material with a rubber squeegee until the substrate is totally free of pores. Then evenly spread the material using a roller. Avoid the formation of puddles.

Consumption of StoPma GH 500: approx. 0.3 - 0.5 kg/m², depending on the absorption capacity of the substrate

Scatter the fresh prime coating with StoQuarz 0.6 - 1.2 mm, grain by grain. Do not scatter an excess.
Consumption of StoQuarz 0.6 - 1.2 mm: approx. 1.5 kg/m²
Remove the quartz sand which has not been integrated by sweeping or suction cleaning.

3) Wearing course
Use an unnotched squeegee to apply StoPma RZ 500, filled with StoQuarz AS 300 in a mixing ratio of 1 : 1.5 parts by weight, and spread evenly using a paint roller.
Consumption of the mixture: 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

Scatter StoQuarz 0.3 - 0.8 mm in excess.

We recommend scattering surfaces subject to higher stress with a Röhrig Granit product depending on the required graining.

Consumption of StoQuarz 0.3 - 0.8 mm: approx. 3.0 - 4.0 kg/m²
Consumption of kiln-dried granite chippings: approx. 4.0 - 5.0 kg/m²

Address:
RÖHRIG Granit, 64631 Heppenheim-Sonderbach, PO box 1347
Telephone (0 62 52) 70 09 - 0, fax (0 62 52) 70 09 - 11
Email: info@roehrig-granit.de, internet: http://www.roehrig-granit.de

Remove the quartz sand which has not been integrated by sweeping or suction cleaning.

StoPma RZ 500 can be reworked after 60 minutes.

4) Sealing
Apply StoPma DV 500 or StoPma DV 500 transparent with a foam rubber squeegee, and then spread evenly by rolling.

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Consumption of StoPma DV 500 or StoPma DV 500 transparent: approx. 0.4 - 0.6 kg/m²

Note:
The material consumption of the coating build-ups can be found in the application information.

Depending on the exposure to chemicals, discolourations can occur. These do not, however, impair the technical function of the coating.
Any yellowing which occurs under UV stress does not impair the technical properties.

Slight deviations in the colour shade are possible between different batches.
In addition to the environment temperature, the substrate temperature is vital for the application of reaction resins. Low temperatures generally delay the chemical reactions which means that the times for application, reworking and accessibility are also extended. At the same time the consumption per surface unit may rise as a result of the increasing viscosity. At high temperatures chemical reactions are accelerated, reducing the above-mentioned times accordingly.

Cleaning the tools	After use, clean immediately with StoDivers EV 100 or StoCryl VV. Leave tools to air-dry for 30 minutes before using again.
Notes, recommendations, special information, miscellaneous	The declaration(s) of performance 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.

Delivery

Colour shade grey, it is not possible to guarantee colour consistency

Article number	Name	Container
00133-001	StoPma RZ 500	20 kg pail

Storage

Storage conditions	Store in dry and frost-free conditions. Avoid direct sunlight. Avoid temperatures above +25 °C.
Storage life	In the original container until ... (see packaging).

Identification

Product group Coating

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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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