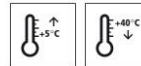


Technical Data Sheet

StoPma TC 500

PMMA coating for traffic areas, for exterior areas



Characteristics

Area of application	• exposed to the weather • on asphalt surfaces • on cementitious substrates with an additional priming coat • as surface marking for cycle paths or car parks • as a slip-resistant coating with StoQuarz
----------------------------	---

Properties	• rapid curing • mechanical resistance • thixotropic
-------------------	--

Appearance	• coloured
-------------------	--

Information/notes	• frost-proof
--------------------------	---

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density (mixture 23 °C)	EN ISO 2811-2	1,65 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. - Do not use the product on damp substrates. Dry substrate: - Depends on the compressive strength class - Dry in accordance with the definition in EN 1504-10 Moisture content:
---------------------	--

Technical Data Sheet

StoPma TC 500

- 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

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

Substrate temperature: at least +5 °C, 3 K above the dew point Bond strength, average: 1.5 N/mm²

Bond strength, lowest single value: 1.0 N/mm²

Bituminous substrates:

- Test the compatibility with the respective substrate.

- New bitumen covering must be older than 6 weeks before coating.

- In the case of bitumen with a high share of short-chain oils, the liquid component of the coating swells the bitumen and the coating cannot react.

Concrete or cementitious screed:

- Test the compatibility with the respective substrate.

- Additives and curing compounds can lead to incompatibility.

- Only use the product with a previous priming coat.

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: +5 °C

maximum temperature: +40 °C

Application temperature:

minimum temperature: +5 °C

maximum temperature: +40 °C

Time for application

At +20 °C: approx. 10 minutes

Mixing ratio

The amount of catalyst required depends on the substrate temperature.

35 °C: 0.8 weight per cent StoPma KAT 300 (200 g/25 kg pail)

25 °C: 1.2 weight per cent StoPma KAT 300 (300 g/25 kg pail)

15 °C: 1.8 weight per cent StoPma KAT 300 (450 g/25 kg pail)

Technical Data Sheet

StoPma TC 500

+5 °C: 2.5 weight per cent StoPma KAT 300 (625 g/25 kg pail)

Material preparation

- 1) Stir the material.
Note: The paraffin must spread evenly. The product components separate during transport and storage.
- 2) Homogenise the product. Paddle mixer: slow running paddle mixer with dispersion disc, maximum 300 rpm
Mixing time: At least 2 minutes
- 3) Add the filling sand.
- 4) Add the catalyst.
- 5) Mix the components.
Paddle mixer: slow running paddle mixer with dispersion disc, maximum 300 rpm
Mixing time: at least 1 minute
- 6) Observe the mixing time.

Consumption

Type of application	Approx. consumption	
StoPma TC 500 filled with quartz sand	4,0 - 6,0	kg/m ² (mixture)
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

- coating on concrete or cementitious screed substrates
- 1) Prepare the substrate.
 - 2) Priming: StoPma GH 105
 - 3) Apply the covering layer: StoPma TC 500
- coating on bituminous substrates
- 1) Prepare the substrate.
 - 2) Apply the covering layer: StoPma TC 500

Application

- A: concrete substrate or cementitious screed
Perform a test with the coating and the primer before application. The surface marking should be 30 cm. Check adhesion after 1 hour.
- 1) Prepare the substrate.
 - 2) Priming:
 - StoPma GH 105
 - Flood apply the product. Tools: rubber squeegee
 - Rework the product with a roller and spread evenly.
 - consumption: approx. 0.3-0.4 kg/m² depending on the absorption capacity of the

Technical Data Sheet

StoPma TC 500

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) surface course

- StoPma TC 500 filled with StoQuarz 0.6-1.2 mm

- A covering layer is possible after 60 minutes.

- mixing ratio for the self-levelling coating: 1.0 parts by weight of StoPma TC 500, 0.8 parts by weight of StoQuarz 0.6-1.2 mm

- Spread the product filled with quartz sand quickly and evenly. Tools: squeegee

- Rework the product with a roller. Tools: roller sleeve

- consumption of StoPma TC 500 filled with quartz sand: approx. 4.0-6.0 kg/m²

- Do not go below the minimum consumption.

B: bituminous substrates

Perform a test with the coating and the primer before application. The surface marking should be 30 cm. Check adhesion after 1 hour.

1) Prepare the substrate.

2) surface course

- StoPma TC 500 filled with StoQuarz 0.6-1.2 mm

- mixing ratio for the self-levelling coating: 1.0 parts by weight of StoPma TC 500, 0.8 parts by weight of StoQuarz 0.6-1.2 mm

- Spread the product filled with quartz sand quickly and evenly. Tools: squeegee

- Rework the product with a roller. Tools: roller sleeve

- consumption of StoPma TC 500 filled with quartz sand: approx. 4.0-6.0 kg/m²

- Do not go below the minimum consumption.

- Do not scatter the product.

Notes

Set coating limits with a wide adhesive tape, width: > 10 cm.

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.

surface course

- The material is thixotropically adjusted, material accumulations do not flow.

- The pile cover of the roller sleeve defines the structure of the marking.

- Mechanical use reduces the layer thickness. This can shorten the service life.

Technical Data Sheet

StoPma TC 500

This can shorten the service life.

Cleaning the tools	Clean tools with StoDivers EV 100 or StoCryl VV. Leave tools to air-dry for 30 minutes before using again.
---------------------------	---

Notes, recommendations, special information, miscellaneous	1) Observe the general application instructions: - see www.stocretec.de , Products - see technical manual, notes 2) Observe the implementation instructions.
---	---

Delivery

Colour shade	RAL 9010, RAL 3020, RAL 5017, RAL 6024, RAL 1023, RAL 9017, RAL 3011, RAL 3013
---------------------	--

Packaging	tin pail
------------------	----------

Article number	Name	Container
01430-002	StoPma TC 500 tinted	25 kg pail

Storage

Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight. Avoid temperatures above +25 °C.
---------------------------	---

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	Sealing coat
----------------------	--------------

GISCODE	RMA10
----------------	-------

Safety	This product is subject to compulsory labelling in accordance with the current EU
---------------	---

Technical Data Sheet

StoPma TC 500

regulation.
Observe the Safety Data Sheet!
Safety instructions refer to the ready-to-use, unapplied product.

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
stocretec@sto.com
www.stocretec.de