Technical Data Sheet
StoPma BC 100

PMMA binder, industry, standard

Characteristics

Area of application

- as self-spreading coatings in food-processing areas
- as a binder for producing thin coatings of 2-3 mm
- as a binder for producing thick coatings of 4-6 mm
- on concrete, cementitious screed, and ceramic tiles

Properties

- PMMA
- rapid curing
- HACCP-certified

Appearance

- coloured or transparent

Information/notes

- StoPma BC 100 is used as a binder to produce coatings in the StoFloor Food Pma BC 100 system

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Viscosity (at 23 °C)	DIN 53015	260 - 320 mPa.s	
Shore hardness type D	DIN 53505	62	approx.
Elongation at break	DIN 53455	34 %	
Density (mixture 23 °C)	DIN 51757	0,99 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: Additives and curing compounds can lead to incompatibility. Test the compatibility of StoPma BC 100 with the respective substrate on the project.

Requirements on the substrate:
- 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 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 - 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
Preparations	Prepare all the above-mentioned substrates using a mechanical method, see “Substrate, requirements”. Example: - Shot-blasting - Milling followed by shot-blasting - Abrasive blasting - Diamond grinding Roughness depths: Reduce roughness depths >1.5 mm, e.g. by diamond-grinding. Note: - Only use system-compatible StoCretec PCC mortars and StoPox Mörtel standfest to profile larger recesses or defects and to create inclinations or seamless backgrounds. - Information about system-compatible PCC mortars is available from the StoCretec Technisches InfoCenter.
Application	
Application temperature	minimum temperature: 0 °C maximum temperature: +35 °C
Time for application	At +20 °C: approx. 15 minutes
Mixing ratio	The amount of starter required depends on the material and substrate temperature. +30 °C: 2.0 weight per cent StoPma KAT 300 (20 g/kg binder) +20 °C: 3.0 weight per cent StoPma KAT 300 (30 g/kg binder) +10 °C: 4.0 weight per cent StoPma KAT 300 (40 g/kg binder) 0 °C: 6.0 weight per cent StoPma KAT 300 (60 g/kg binder)

Technical Data Sheet
StoPma BC 100

Material preparation

Strongly inclined or vertical areas:
- Put StoPma BC 100 with StoDivers ST.
- StoDivers ST: at least approx. 3.0 percent by weight, 30 g/kg binder.

1) Stir the material.
Note: The paraffin must spread evenly.
2) Add the starter.
3) Mix the components.
Paddle mixer: slow running mixer, max. 300 rpm
Mixing time: at least 1 minute
4) Apply the mixture immediately.

Consumption

Type of application	Approx. consumption	
per mm layer thickness	0,5 - 0,6	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

A: slip-resistant, self-spreading thin coating, 2-3 mm
1) Priming: StoPma GH 100
2) Coating: StoPma BC 100
3) Scatter: coloured quartz 0.6–1.2 mm
4) Sealing: StoPma TC 100
5) Sealing: StoPma TC 100 (optional)

B: slip-resistant, self-spreading thick coating, 4-6 mm
1) Priming: StoPma GH 100
2) Coating: StoPma BC 100
3) Scatter: coloured quartz 0.6–1.2 mm
4) Sealing: StoPma TC 100
5) Sealing: StoPma TC 100 (optional)

C: decorative, smoothable coloured quartz coating, 4-6 mm
1) Priming: StoPma GH 100
2) Scatter: StoQuarz 0.3-0.8 mm
3) Coating: StoPma BC 100
4) Sealing: StoPma TC 100
5) Sealing: StoPma TC 100 (optional)

Application

A: slip-resistant, self-spreading thin coating, 2-3 mm

1) Priming: StoPma GH 100
- Application: See the Technical Data Sheet.

2) Coating: StoPma BC 100
- StoPma BC 100, weight proportion in per cent: approx. 33 per cent by weight
- StoQuarz RF weight proportion in per cent: approx. 65 weight per cent
- Mix in the StoPma pigment. weight proportion in per cent: approx. 2 weight per cent
- Mix in the starter. weight proportion in per cent: approx. 2-6 weight per cent, depending on the temperature
- Pour the coating onto the surface and distribute it. Tools: squeegee, bucket trowel, roller sleeve
- Do not de-air the coating with a spiked roller.
- consumption: approx. 1.67 kg/m²/mm in total

3) Scatter: coloured quartz, graining 0.6–1.2 mm
- coverage: approx. 3.0–4.0 kg/m²

4) Sealing coat: StoPma TC 100

5) Sealing: StoPma TC 100 (optional)
- Application: see the Technical Data Sheet.

B: slip-resistant, self-spreading thick coatings, 5 mm

Recommendation: thickness of the industrial floor coating for forklifts and lift trucks: minimum 4 mm

1) Priming: StoPma GH 100
- Application: see the Technical Data Sheet.

2) Coating: StoPma BC 100
- StoPma BC 100, weight proportion in per cent: approx. 28 weight per cent
- StoQuarz RF weight proportion in per cent: approx. 70 weight per cent
- Mix in the StoPma pigment. weight proportion in per cent: approx. 2 weight per cent
- Mix in the starter. weight proportion in per cent: approx. 2-6 weight per cent, depending on the temperature
- Pour the coating onto the surface and distribute it. Tools: squeegee, bucket trowel, roller sleeve
- Do not de-air the coating with a spiked roller.
- consumption: approx. 1.8 kg/m²/mm in total

3) Scatter: coloured quartz, graining 0.6–1.2 mm, approx. 5–6 kg/m²

4) Sealing: StoPma TC 100

5) Sealing coat: StoPma TC 100 (optional)
- Application: see the Technical Data Sheet.

C: decorative, smoothable coloured quartz coating, 4-6 mm

1) Priming: StoPma GH 100
- Application: see the Technical Data Sheet.

2) Scatter: StoQuarz 0.3-0.8 mm

3) Coating: StoPma BC 100
- StoPma BC 100, weight proportion in per cent: approx. 21-23 weight per cent
- Mix in coloured quartz. weight proportion in per cent: approx. 77-79 weight per cent
- Mix in the StoPma pigment. weight proportion in per cent: approx. 2 weight per cent
- Mix in the starter. weight proportion in per cent: approx. 2-6 weight per cent, depending on the temperature
- Pour the coating onto the surface and distribute it. Tools: squeegee, bucket trowel, roller sleeve
- Do not de-air the coating with a spiked roller.
- consumption: approx. 2.0 kg/m²/mm in total
- Note: StoPma BC 100 can be reworked after 90 minutes. Break the raised edges before overcoating. Suction clean the surface.

4) Sealing: StoPma TC 100

5) Sealing: StoPma TC 100 (optional)
- Application: see the Technical Data Sheet.

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	Observe the general application instructions: - see www.stocretec.de, Products - see technical manual, notes ordering address for coloured quartzes: Gebrüder Dorfner GmbH & Co. Kaolin- und Kristallquarzsand- Werke KG Scharhof 1 D-92242 Hirschau E-mail: info@dorfner.com www.dorfner.com

Delivery

Colour shade	RAL colour fan
Packaging	tin pail

Article number	Name	Container

Technical Data Sheet
StoPma BC 100

	09731-002	StoPma BC 100	190 kg vat (bar)
	09731-001	StoPma BC 100	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

GISCODE	RMA10

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

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