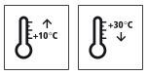
Technical Data Sheet

StoPur BA M

PUR liquid-applied waterproofing, suitable for manual application



Characteristics

Area of application

- as a waterproofing layer under bituminous protection layers for surfaces on concrete substrates which are subject to foot and vehicle traffic

Properties

- permanently elastic
- crack-bridging
- very good bond to the primer and subsequent protection layer

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Shore hardness type A	EN ISO 868	52 - 58	
Viscosity (at 23 °C)	EN ISO 3219	12.000 - 18.000 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1,36 - 1,44 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

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

Dry in accordance with the definition in ZTV-ING (German directive), 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 +8 °C and 3 K above dew point.
Average bond strength: 1.5 N/mm²
Bond strength, lowest single value: 1.0 N/mm²

Preparations

Substrate preparation:
Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting.

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Application	
Application temperature	Lowest application temperature: +10 °C Highest application temperature: +30 °C
Time for application	At +10°C: approx. 35 minutes At +23°C: approx. 25 minutes At +30 °C: approx. 15 minutes
Mixing ratio	Component A : component B = 100.0 : 50.0 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 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	
per mm layer thickness	1,4	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	1) Substrate preparation 2) Prime coating of StoPox BV 100 3) Scratch coat (optional) of StoPox BV 100 with Sto Zuschlag KS 4) Bonding agent StoPur VS 70 5) Waterproofing layer of StoPur BA M, 2 coats
Application	1) Substrate preparation 2) Prime coating of StoPox BV 100 Flood apply the mixed material to the substrate and spread it using a rubber squeegee. Leave to react for 5 minutes. Rework the surface evenly with a roller. Consumption of StoPox BV 100: 0.3 - 0.5 kg/m² Scatter StoQuarz 0.3 - 0.8 mm evenly, grain by grain, over the fresh prime coating.

Consumption of StoQuarz 0.3 - 0.8 mm: approx. 1 kg/m²

After curing, remove loose quartz sand by sweeping or suction cleaning.

3) Prime coating and scratch coat of StoPox BV 100 with Sto Zuschlag KS
Flood apply the mixed StoPox BV 100 to the substrate and spread it using a rubber squeegee. Leave to react for 5 minutes. Rework the surface evenly with a roller.
Consumption of StoPox BV 100: approx. 0.3 - 0.5 kg/m²

Mix StoPox BV 100 and then mix again with approx. 3 parts by weight of Sto Zuschlag KS. Roughly spread the mixture over the freshly primed area and trowel off evenly to the required layer thickness using a serrated installation tool.
Consumption of StoPox BV 100: approx. 0.5 kg/m² per mm layer thickness
Consumption of Sto Zuschlag KS: approx. 1.5 kg/m² per mm layer thickness
Evenly scatter an abundant amount of StoQuarz 0.3 - 0.8 mm onto the fresh scratch coat. Avoid bald spots - if necessary, apply more scatter to the gaps until the scratch coat starts to gel.
Consumption of StoQuarz 0.3 - 0.8 mm: approx. 6 kg/m²
After curing, remove loose quartz sand by sweeping or suction cleaning.

4) Bonding agent StoPur VS 70
Spray a thin layer of StoPur VS 70 at the earliest 1 day after applying the prime coating/scratch coat of StoPox BV 100, at +20 °C average substrate temperature. If necessary, roll afterwards with a dry lambswool roller. Avoid the formation of puddles.
Consumption of StoPur VS 70: max. 0.1 kg/m²

5) Waterproofing layer
The minimum waiting time before applying layer 1 of the StoPur BA M thick coat at +20 °C average substrate temperature and > 40 % relative humidity is: 5 hours. The maximum waiting time is 12 hours.

Apply the first layer of StoPur BA M in a layer thickness of 1 mm and carefully de-air.

After a waiting time of approx. 0.5 - 2 hours, apply layer 2 of StoPur BA M with a layer thickness of approx. 2 mm.

Protect StoPur BA M from the direct influence of moisture for the 2 hours following application at a normal temperature (+23 °C and 50 % relative humidity).

Note:
At low temperatures there may well be a delayed reaction, a change in material consistency, and possibly higher consumption.

For this reason, apply StoPur BA M at temperatures above +15 °C if possible.

Cleaning the tools	Clean with StoDivers EV 100 immediately after use.
Notes, recommendations, special information, miscellaneous	General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.

Delivery

Colour shade grey

Article number	Name	Container
14303/005	StoPur BA M Komp. A	9 kg set
14303/002	StoPur BA M Combi	9 kg combi

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	Waterproofing
GISCODE	x
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.

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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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