# Technical Data Sheet

# StoPur BA 2000

PUR spray-on waterproofing

## 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
- very high degree of heat resistance
- high reactivity

**Information/notes**

- not suitable for manual application
- tested in accordance with TL/TP-BEL-B3

## Technical data

| Criterion | Standard / test specification | Value/ Unit | Notes |
|---|---|---|---|
| Shore hardness type A | EN ISO 868 | 75 | |
| Tear resistance | DIN 53504 | 6,5 MPa | |
| Elongation at break | DIN 53504 | 600 % | |
| Density (mixture 23 °C) | EN ISO 2811 | 0,92 - 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**

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.

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.

## Application

**Application temperature**

Lowest application temperature: +8 °C
Highest application temperature: +30 °C

**Consumption**

| Type of application | Approx. consumption | |
|---|---|---|
| as waterproofing | 2,0 | 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**

Liquid plastic waterproofing on the concrete carriageway deck under a mastic asphalt protection layer (in accordance with ZTV-ING part 7 section 3)
1) Substrate preparation
2) Prime coating of StoPox BV 100
3) Scratch coat
4) Bonding agent StoPur VS 70
5) Waterproofing layer of StoPur BA 2000
6) Tack coat of StoPur VBS 2000
7) Mastic asphalt protection layer

**Application**

Observe the instructions for implementation.
Liquid plastic waterproofing on the concrete carriageway deck under a mastic asphalt protection layer (in accordance with ZTV-ING part 7 section 3)

1) Substrate preparation

2) Prime coating of StoPox BV 100
Flood apply the mixed material to the substrate and spread it using a foam 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. Avoid the formation of puddles. If necessary, roll afterwards with a dry lambswool roller.
Consumption of StoPur VS 70: max. 0.1 kg/m²

5) Waterproofing layer StoPur BA 2000
For StoPur VS 70 the minimum waiting time before applying the first layer of StoPur BA 2000 thick coat is 5 hours (at +20 °C average substrate temperature and > 40 % relative humidity). The max. waiting time is 12 hours.

Consumption of StoPur BA 2000: approx. 2.0 kg/m² plus the roughness depth

StoPur BA 2000 can only be applied using 2-component spray equipment.

Spray equipment: Unipre G 31, Unipre GC 52
Settings (spray equipment): heat up to +50 °C
Mixing ratio in parts by weight component A : component B = 100.0 : 79.0
Mixing ratio in parts by volume component A : component B = 100.0 : 74.0
Viscosity of component A = 1300 mPa
Viscosity of component B = 2400 mPa
Density of component A = 1.03 g /cm³
Density of component B = 1.10 g/cm³

6) Tack coat of StoPur VBS 2000
Apply the StoPur VBS 2000 tack coat at the earliest 2 hours after spraying the StoPur BA 2000 waterproofing layer and at 20 °C average substrate temperature. Apply by airless spray-gun; over small areas StoPur VBS 2000 can also be applied using a short-pile roller.
If applying StoPur VBS 2000 by roller, do so quickly and evenly.
Consumption of StoPur VBS 2000: approx. 0.15 kg/m²

7) Mastic asphalt protection layer
After a waiting time of at least 24 hours at +20 °C, apply the mastic asphalt protection layer to the StoPur VBS 2000 tack coat; however this must be at the earliest 2 days after applying the StoPur BA 2000 waterproofing.

Note:
Moisture and soiling between the individual stages can disturb the adhesive bond. Therefore take suitable preventative measures.

At low temperatures, a delayed reaction, longer flash-off times, and a change in material consistency should generally be expected.

Application temperature (2-component equipment) according to implementation instructions +50 °C.

| | |
|---|---|
| **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.<br>Delivery time 10 - 12 days from the Donaueschingen factory |

## Delivery

**Colour shade** grey

| Article number | Name | Container |
|---|---|---|
| 14100/001 | StoPur BA 2000 Set | 358 kg set |

## Storage

| | |
|---|---|
| **Storage conditions** | Store in dry and frost-free conditions. Avoid direct sunlight. |
| **Storage life** | In the original container until ... (see packaging). |

## Certificates/approvals

| | |
|---|---|
| StoPur BA 2000 | Implementation Instructions<br>Implementation Instructions |

## Identification

| | |
|---|---|
| **Product group** | Waterproofing |
| **GISCODE** | x |

# Technical Data Sheet

# StoPur BA 2000

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|---|---|
| **Safety** | This product is subject to compulsory labelling in accordance with the current EU regulation.<br>You will receive an EU Safety Data Sheet with your first order.<br>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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