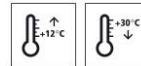


# Technical Data Sheet

## StoPur BB 100

PUR coating, high-quality visual characteristics,  
low-emission



### Characteristics

#### Area of application

- interior
- as a coloured floor coating with a decorative style
- for public and trade areas
- on cementitious substrates
- on hard mastic asphalt screeds

#### Properties

- surface of a high visual quality
- low in VOC emissions
- viscoplastic
- structurally crack-bridging
- absorbs the sound of impacts

#### Appearance

- gloss, silk matt, or matt, depending on the sealant used

#### Information/notes

- product is in accordance with EN 1504-2
- product is in accordance with EN 13813
- sensitive to humidity while curing

### Technical data

| Criterion               | Standard / test specification | Value/ Unit                   | Notes   |
|-------------------------|-------------------------------|-------------------------------|---------|
| Bond strength           | EN 1542                       | > 2,0 MPa                     |         |
| Viscosity (at 23 °C)    | EN ISO 3219                   | 2.800 - 4.200 mPa.s           | mixture |
| Shore hardness type D   | DIN 53505-D/EN ISO 868        | 34 - 40                       |         |
| Density (mixture 23 °C) | EN ISO 2811                   | 1,42 - 1,50 g/cm <sup>3</sup> |         |

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

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- Free from separating, native, or foreign substances
- Remove weak layers.
- Remove the scatter sand which has not been integrated.
- Remove any accumulation of fine concrete particles on the surface.

Dry substrate:

- Depends on the compressive strength class
- Dry according to the definition contained in the DAfStb (German) Repair Guideline, issue 2001-10.

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 +12 °C, 3 K above the dew point

Bond strength, average: 1.5 N/mm<sup>2</sup>

Bond strength, lowest single value: 1.0 N/mm<sup>2</sup>

Mastic asphalt:

- Expose 75 % of the aggregate.
- Hardness class: Minimum IC 40 in accordance with EN13813

#### 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 conditions

The relative humidity may not amount to more than 75 % during coating work.

##### Application temperature

substrate and air temperature  
minimum temperature: +12 °C  
maximum temperature: +30 °C

Application temperature:  
minimum temperature: +12 °C  
maximum temperature: +30 °C

Relative humidity:  
minimum: 30 %  
maximum: 75 %

##### Time for application

At +12 °C: approx. 45 minutes

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At +20 °C: approx. 30 minutes  
At +30 °C: approx. 15 minutes

Reworking time:  
at +10 °C: approx. 32 h  
at +20 °C: approx. 18 h  
at +30 °C: approx. 14 h

|                     |  |
|---------------------|--|
| <b>Mixing ratio</b> | component A : component B<br>A : B<br>100.0 : 30.0 parts by weight |
|---------------------|--|

|                             |   |
|-----------------------------|---|
| <b>Material preparation</b> | <p>Notes:</p> <ul style="list-style-type: none"><li>- Component A and component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions.</li><li>- Observe the order of the "Preparing material" steps.</li><li>- The material temperature is between +15 °C and +25 °C.</li><li>- The temperature of all components is between +15 °C and +25 °C.</li></ul> <p>Mixing time:</p> <ul style="list-style-type: none"><li>- The length of the mixing time depends on the temperature of the material and the ambient temperature.</li><li>- Mix each container for the same length of time.</li></ul> <p>Possible consequences if mixing times are too long or too short:</p> <ul style="list-style-type: none"><li>- Mixing the product too long will shorten the time for application.</li></ul> <p>Preparing the material:</p> <ol style="list-style-type: none"><li>1) Stir component A.</li><li>2) Add all of component B.</li><li>3) Mix the components until the hardener is well distributed, the mixture is homogeneous, and a streak-free mass is produced.</li></ol> <p>Paddle mixer: slow running mixer, max. 300 rpm<br/>Mixing time: at least 3 minutes<ol style="list-style-type: none"><li>4) Ensure the the mixing equipment covers the floor areas and the edge zones of the mixing container. The hardener must be evenly distributed.</li><li>5) Transfer the mixture to a clean container. Mix the components again.</li></ol></p> |
|-----------------------------|---|

|   |                                   |                     |                   |
|---|-----------------------------------|---------------------|-------------------|
| <b>Consumption</b>  | Type of application               | Approx. consumption |                   |
|   | per mm layer thickness (unfilled) | 1,4                 | kg/m <sup>2</sup> |
| 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. |                                   |                     |                   |

|                         |                              |
|-------------------------|------------------------------|
| <b>Coating build-up</b> | A: coating on mastic asphalt |
|-------------------------|------------------------------|

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- 1) Prepare the substrate.
- 2) Priming: StoPox 452 EP
- 3) Apply a scratch mortar: StoPox 452 EP
- 4) Apply the covering layer: StoPur BB 100
- 5) Optional loose scattering: StoChips 1 mm and StoChips 3 mm
- 6) Sealing: StoPur WV 100 transparent, StoPur WV 150 transparent, StoPur WV 152 transparent, StoPur WV 205 transparent, or StoPur WV 202 transparent
- 7) Apply a floor finish: StoDivers P 105 or StoDivers P 120

B: coating on cementitious substrates

- 1) Prepare the substrate.
- 2) Priming: StoPox GH 205
- 3) Apply a scratch mortar: StoPox GH 205
- 4) Apply the covering layer: StoPur BB 100
- 5) Optional loose scattering: StoChips 1 mm and StoChips 3 mm
- 6) Sealing: StoPur WV 100 transparent, StoPur WV 150 transparent, StoPur WV 152 transparent, StoPur WV 205 transparent, or StoPur WV 202 transparent
- 7) Apply a floor finish: StoDivers P 105 or StoDivers P 120

#### Application

A: coating on mastic asphalt

- 1) Prepare the substrate.
  - Uncover 75 % of the aggregate.
  - bond strength: 1.5 N/mm<sup>2</sup>
- 2) Priming:
  - StoPox 452 EP
  - Flood apply the product without pores. Tools: rubber squeegee
  - Rework the product with a roller and spread evenly. Tools: short-pile roller sleeve
  - Consumption: approx. 0.3-0.6 kg/m<sup>2</sup> depending on the absorption capacity of the substrate
  - Note: Avoid the formation of puddles.
- 3) Apply a scratch mortar:
  - StoPox 452 EP
  - mixing ratio:
    - 1.0 parts by weight of StoPox 452 EP,
    - 1.5 parts by weight from a mix of 50 % StoQuarz 0.01 mm and 50 % StoQuarz 0.1-0.5 mm
  - Apply the product filled with quartz sand. Tools: squeegee
  - Spread the product evenly and de-air. Tools: spiked roller
  - consumption StoPox 452 EP, per mm layer thickness: approx. 0.7-0.8 kg/m<sup>2</sup>
  - consumption of StoQuarz 0.01 mm: approx. 0.5-0.6 kg/m<sup>2</sup>
  - consumption of StoQuarz 0.1-0.5 mm: approx. 0.5-0.6 kg/m<sup>2</sup>
  - Note: Do not scatter the scratch coat.
- 4) Apply the covering layer:

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- StoPur BB 100
- Apply the StoPur BB 100 covering layer to the StoPox 452 EP scratch coat within 72 hours. Tools: squeegee, e.g. Sto-Notched Blade, notching: 48
- consumption: approx. 2.5 kg/m<sup>2</sup>

5) Optional loose scattering:

- StoChips 1 mm and StoChips 3 mm
- Scatter the product into the fresh covering layer.
- consumption of StoChips 1 mm: approx. 0.05 kg/m<sup>2</sup>
- consumption of StoChips 3 mm: approx. 0.05 kg/m<sup>2</sup>

6) Sealing:

- gloss: with StoPur WV 100 transparent
- silk matt: with StoPur WV 150 transparent
- matt: with StoPur WV 152 transparent
- matt: with StoPur WV 202 transparent
- matt: with StoPur WV 205 transparent
- Apply the product evenly in a criss-cross pattern. Tools: lacquer roller
- consumption: approx. 0.1-0.15 kg/m<sup>2</sup>

7) Apply a floor finish:

- StoDivers P 105 or StoDivers P 120
- Apply the product evenly and thinly. Tools: damp mop
- Leave the product to dry for 20-30 minutes.
- For further application cycles: apply the product crosswise to the previous application cycle. Apply the product crosswise to the previous application cycle.
- consumption: approx. 30-50 ml/m<sup>2</sup>, depending on the application cycle
- Note:

The floor finish increases the gloss level of the silk matt sealing coat StoPur WV 150 transparent.

The floor finish increases the gloss level of the matt sealing coat StoPur WV 152 transparent.

The floor finish increases the gloss level of the matt sealing coat StoPur WV 202 transparent.

Apply a floor finish to the sealing coat 2 days at the earliest after application.

Avoid overlaps.

Depending on the expected stress: apply the product in several application cycles. Observe the drying times between application cycles.

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B: coating on cementitious substrates

1) Prepare the substrate.

2) Priming:

- StoPox GH 205
- Flood apply the product without pores. Tools: rubber squeegee
- Rework the product with a roller and spread evenly. Tools: short-pile roller sleeve
- consumption: approx. 0.3-0.5 kg/m<sup>2</sup>, depending on the absorption capacity of the

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substrate

- Note: Avoid the formation of puddles.

3) Apply a scratch mortar:

- StoPox GH 205

- mixing ratio:

1.0 parts by weight of StoPox GH 205,

1.5 parts by weight from a mix of 50 % StoQuarz 0.01 mm and 50 % StoQuarz 0.1-0.5 mm

- Apply the product filled with quartz sand. Tools: squeegee

- Spread the product evenly and de-air. Tools: spiked roller

- consumption StoPox GH 205, per mm layer thickness: approx. 0.7-0.8 kg/m<sup>2</sup>

- consumption of StoQuarz 0.01 mm: approx. 0.5-0.6 kg/m<sup>2</sup>

- consumption of StoQuarz 0.1-0.5 mm: approx. 0.5-0.6 kg/m<sup>2</sup>

- Note: Do not scatter the scratch coat.

4) Apply the covering layer:

- StoPur BB 100

- Apply the StoPur BB 100 covering layer to the StoPox GH 205 scratch coat within 72 hours. Tools: squeegee, e.g. Sto-Notched Blade, notching: 48

- consumption: approx. 2.5 kg/m<sup>2</sup>

5) Optional loose scattering:

- StoChips 1 mm and StoChips 3 mm

- Scatter the product into the fresh covering layer.

- consumption of StoChips 1 mm: approx. 0.05 kg/m<sup>2</sup>

- consumption of StoChips 3 mm: approx. 0.05 kg/m<sup>2</sup>

6) Sealing:

- gloss: with StoPur WV 100 transparent

- silk matt: with StoPur WV 150 transparent

- matt: with StoPur WV 152 transparent

- matt: with StoPur WV 202 transparent

- matt: with StoPur WV 205 transparent

- Apply the product evenly in a criss-cross pattern. Tools: lacquer roller

- consumption: approx. 0.1-0.15 kg/m<sup>2</sup>

7) Apply a floor finish:

- StoDivers P 105 or StoDivers P 120

- Apply the product evenly and thinly. Tools: damp mop

- Leave the product to dry for 20-30 minutes.

- For further application cycles: apply the product crosswise to the previous application cycle. Apply the product crosswise to the previous application cycle.

- consumption: approx. 30-50 ml/m<sup>2</sup>, depending on the application cycle

- Note:

The floor finish increases the gloss level of the silk matt sealing coat StoPur WV 150 transparent.

The floor finish increases the gloss level of the matt sealing coat StoPur WV 152

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transparent.

The floor finish increases the gloss level of the matt sealing coat StoPur WV 202 transparent.

Apply a floor finish to the sealing coat 2 days at the earliest after application.

Avoid overlaps.

Depending on the expected stress: apply the product in several application cycles.

Observe the drying times between application cycles.

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Note:

- Avoid direct sunlight, high temperatures, and draughts during application.

- Exposure of the chemicals may cause discolourations, which do not, however, impair the technical function of the coating.

- When working with polyurethane, make sure that the material does not come into contact with water during curing, as this can lead to reaction bubbles (foam formation).

- Roller marks can occur with the sealing coat.

- For a sealing coat with StoPur WV 150 transparent, StoPur WV 152 transparent, and StoPur WV 202 transparent: The colour shade becomes lighter, especially with dark and bright colour shades.

- The natural raw materials contained in the product can lead to a change in colour shade over time.

This particularly affects white and light colour shades.

- Equip office chairs with castors, type W, in accordance with EN 12529.

- for further information on application: see the StoPur BB 100 guidelines

### Cleaning the tools

Clean tools with StoDivers EV 100 or StoCryl VV.

### Notes, recommendations, special information, miscellaneous

1) Observe the general application instructions:

- see [www.stocretec.de](http://www.stocretec.de), Products

- see technical manual, notes

2) Observe the implementation instructions.

Declaration of performance, CE marking:

- declaration of performance: see [www.stocretec.de](http://www.stocretec.de)

- The abrasion resistance specified in the declaration of performance refers to the smooth, not scattered covering.

### Delivery

#### Colour shade

RAL colour fan, wide colour shade variety, limited tintability in accordance with the StoColor System

#### Packaging

pail

| Article number | Name                     | Container |
|----------------|--------------------------|-----------|
| 03778/013      | StoPur BB 100 Set tinted | 10 kg set |

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## StoPur BB 100

|  |   |                          |           |
|--|---|--------------------------|-----------|
|  | 03778/012   | StoPur BB 100 Set tinted | 25 kg set |
| Storage  |   |                          |           |
| Storage conditions   | Store in dry and frost-free conditions. Protect from direct sunlight.   |                          |           |
| Storage life   | The product quality is best guaranteed in its unopened original container until its shelf life has expired. The first digit of the batch number is the final digit of the year. The second and third digits indicate the calendar week. Example: 1450013223 - shelf life until end of calendar week 45 in 2021. See product packaging |                          |           |
|  |   |                          |           |
| Identification   |   |                          |           |
| Product group  | Coating   |                          |           |
|  |   |                          |           |
| GISCODE  | PU10  |                          |           |
|  |   |                          |           |
| Safety   | This product is subject to compulsory labelling in accordance with the current EU regulation.<br>Observe the Safety Data Sheet!   |                          |           |
|  |   |                          |           |
| 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.<br>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.<br><br>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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