



PC-Sealcoat® BT

Single component, bituminous polyurethane, liquid applied waterproofing membrane

PC-Sealcoat® BT is a liquid-applied, permanently elastic, cold-curing, bitumen-extended, single-component solvent-based polyurethane membrane specially crafted for long-lasting waterproofing solutions. Incorporating the **PC-Sealcoat® BT**, this product features pure elastomeric hydrophobic polyurethane resins combined with chemically polymerized virgin bitumen, providing exceptional resistance to mechanical stress, chemicals, heat, and environmental elements. The curing process of the **PC-Sealcoat® BT** is facilitated through a reaction with ground and atmospheric moisture.

FEATURES

- The application process is uncomplicated and user-friendly.
- Upon application, it forms a smooth and continuous membrane.
- Exhibits resistance to frost.
- Possesses the ability to bridge cracks effectively.
- Showcases remarkable thermal resistance without compromising its structural integrity.
- Demonstrates consistent mechanical properties within a broad temperature range from -30°C to +90°C.
- Shows exceptional adhesion to diverse surfaces.
- Resistant to household chemicals.
- Facilitates straightforward repairs for any mechanical damage sustained by the membrane.
- Application does not necessitate the use of open flames, such as torches.

PRODUCTS PROPERTIES

Physical Properties	Typical Value
Form	Bitumen-modified resin
Colour	black
SHORE A Hardness	30
Density	1.32 kg/l ± 0.02 kg/l
Elongation at break (ASTM D 412 / EN 527-3)	> 450%
Tensile strength (ASTM D 412 / EN 527-3)	>8.0 N/mm ²
Water impermeability (DIN 1048)	6 atm
Minimum application temperature	+5°C
Service temperature	from -15°C to +80°C
Adhesion	2.0 N/mm ²
Permeability to water	7 bar passes
Viscosity	~ 9,000 mPa·s (+23°C)
Tear Resistance	15 N/mm ²
Final Curing time	7 days
Puncture Resistance	> 100 N

The application temperature should be between 5°C to 45°C. Application procedures may vary slightly depending upon site conditions. Recommended guidelines for the application of the coating system are as follows:

USES

- Construction of underground structures and foundations.
- Integration of green roofs and flower beds.
- Installation of non-potable water tanks and irrigation channels.
- Application of under tiles in spaces like kitchens, bathrooms, balconies, flat roofs, and terraces, preceded by a layer of quartz sand
- Placement of thermal insulation boards beneath flat roofs.
- Utilization in diverse construction projects such as highways, tunnels, and bridge decks.

SURFACE PREPARATION

Achieving a high-quality and durable finish necessitates meticulous surface preparation. Prior to the application of any coating, it is imperative to thoroughly clean the surface, ensuring it is completely dry and free from any substances that might impede the membrane's adhesion.

Maintaining the moisture content below 5% is critical. Moreover, the substrate should exhibit a compressive strength of 25MPa or higher and a cohesive bond strength of at least 1.5MPa. In the case of new concrete surfaces, a minimum drying period of 28 days is mandatory.

Removal of loose coatings, dirt, oils, organic residues, and dust from the surface is recommended using a grinding machine. Additionally, it is essential to level surface imperfections and clear away any loose debris and grinding residue thoroughly.

APPLICATION

Prior to application, thoroughly stir the mixture for 2-3 minutes. Utilize a roller or brush to apply **PC-Sealcoat® BT** evenly across the surface until complete coverage is achieved. Target areas prone to issues, such as wall-floor junctions, 90° angles, chimneys, pipes, and waterspouts, by reinforcing them with **PC-Seal®mash**. For reinforcement, carefully position a properly cut piece of **PC-Seal®mash** onto the damp **PC-Sealcoat® BT**, firmly press it to ensure absorption, and then saturate it once more with an ample amount of **PC-Sealcoat® BT**.

Apply an additional layer of **PC-Sealcoat® BT** between 8 to 24 hours after the initial application. In cases where greater durability is required, contemplate applying a third layer of **PC-Sealcoat® BT**. If the ultimate layer of **PC-Sealcoat® BT** is intended to be tiled with ceramic tiles, it is imperative to saturate it completely with oven-dry silica sand (sized 0.4 - 0.8 mm) while the surface remains wet.



RETAINING WALLS APPLICATION

For the protection of the cured **PC-Sealcoat® BT**, it is recommended to employ a drainage board prior to backfilling. In cases where additional thermal insulation is required, consider placing an insulation board (such as XPS, EPS, PUR, etc.) over the cured **PC-Sealcoat® BT** before adding the protective drainage board.

METAL SURFACES

Metal surfaces should be Dry and clean. Free of grease, loose particles, dust, etc. that may impair adhesion. Free of rust or corrosion that may impair adhesion. Having been prepared by brushing, rubbing, sandblasting, etc., and then thoroughly cleaned from dust, metal surfaces are primed with the **PC-Rustproof® RC** anticorrosive epoxy coating in one or two layers. PC-Rustproof RC is applied by roller, brush or spray. The second layer follows after the first has dried, but within 24 hours. Consumption: 150-200 g/m² /layer. Application of **PC-Sealcoat® BT** should follow within the next 24-48 hours.

REMARKS

- When using a spray application, it is advisable to dilute **PC-Sealcoat® BT** with a small quantity of SM-28 special solvent, adjusting the amount based on prevailing weather conditions.
- It is imperative to avoid contact between **PC-Sealcoat® BT** and chemically treated water found in swimming pools.

PACKAGING

20 kg air tight buckets

CONSUMPTION

It is advisable to apply 2.0 kg/m² in two or three coats. This guidance pertains to roller application on a smooth surface under optimal conditions. Factors such as surface porosity, temperature variations, and the chosen application method can influence the quantity required.

SHELF LIFE

Stored for 24 months in a dry, cold place below 25 °C in its original sealed packaging.

SAFTY

Extended exposure may lead to eye and skin irritation upon contact. If the issue persists, seek medical assistance. It is advisable to use gloves when applying the product.



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TECHNICAL DATA SHEET UPDATED IN
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TDS/PC-SEALCOAT® BT/20

All technical data in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

The information, particularly the recommendations relating to the application and end-use of PC-WC products, are given in good faith based on PC-WC's current knowledge and experience of the products when properly stored, handled and applied under normal conditions by PC-WC recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or any other advice offered. The user must test the product's suitability for the intended application and purpose. PC-WC Global FZ-LLC reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website www.pc-wc.com