



PC-Sealcoat® PU 110

Single component Environment friendly water based Poly urethane coating with Heat resistance efficiency

PC-Sealcoat® PU 110 is a polyurethane-based elastomeric coating recognized for its exceptional heat resistance. Upon application, this single-part system undergoes curing to create a robust, flexible, and water-resistant shield that displays superb adhesion to the substrate.

FEATURES

- Exhibits heat resistance.
- Demonstrates exceptional water resistance.
- Particularly suitable for damp surfaces due to superior adhesion to the substrate.
- Boasts high durability, featuring a smooth film finish and outstanding crack bridging capabilities
- Environmentally conscious and user-friendly application.

PRODUCTS PROPERTIES

Physical Properties	Typical Value
Form	Polyurethane resin
Colour	White/Grey
Touch dry time	3 hrs @ 30°C
Specific gravity	1.05(±0.05)
Solid content	60% (±2%)
Application temperature	5 to 40 °C (ambient)
Service temperature	-5 to 70 °C (Surface)
Tensile strength ASTM D 412	1.0 N/mm ²
Elongation ASTM D 412	> 150%
Shore A Hardness	40
Crack Bridging ASTM D 836	> 1.5mm
Adhesion to concrete ASTM D 4541	0.75 N/mm ²
Water penetration BS EN 12390	Pass
Water vapor transmission	Pass

The optimal application temperature should fall within the range of 5°C to 45°C. Application methods may need slight adjustments based on specific site conditions. Below are the suggested instructions for applying the coating system:

PACKAGING AND STORAGE

20 Ltr pails

Store all materials in a covered, cool, and dry place. Avoid material allowing the material to freeze which will render the material unusable. If stored properly, **PC-Sealcoat® PU 110** has a shelf life of at least 12 months.

USES

- Retaining walls and foundations.
- Lift pits, concrete structures, gutters, planter boxes, and tanks.
- Wet areas like toilets, kitchens, and balconies.
- Serving as a DPC layer beneath block work to inhibit rising dampness in roofs and wet areas.
- Applicable for both indoor and outdoor waterproofing needs.

SURFACE PREPARATION

The surface must be structurally sound and free of contaminants such as oil, grease, dust, and other substances that may affect adhesion. To ready the surface, it is recommended to employ a rotary wire brush or conduct light grinding. For minor imperfections like small honeycombs and holes up to 5mm, these should be filled with cementitious mortar. When applying **PC-Sealcoat® PU 110** on aluminum sandwich panels or corrugated sheets, it is imperative to verify that all joints are firmly riveted and replace any corroded sheets as needed.

PRIMING

It is recommended to apply a primer coat on surfaces that have been previously used and aged to seal the pores and stabilize the surface. To create a primer coat, dilute **PC-Sealcoat® PU 110** with 30% clean water. This process will improve the bonding strength of the coating. It is essential to allow a minimum drying time of 8 hours at 30°C.

APPLICATION

To maintain consistent viscosity and homogeneity, it is essential to thoroughly stir the contents in the pail. The application of **PC-Sealcoat® PU 110** can be accomplished using a soft-bristled brush, roller, or an airless spray. The initial undiluted coat should be applied at a rate of 1L/m²/coat to achieve a Dry Film Thickness of 0.75 mm. Subsequent coats should be applied only after the previous coat has cured, typically requiring approximately 8 hours at 30°C. The second coat should be applied perpendicular to the first, maintaining the same coverage rate to ensure a seamless coating on the substrate. For added durability, consider embedding a non-woven geo-textile membrane into the first coat at expansion joint areas and corners while it is still wet. This reinforcement enhances the strength of the coating. Allow the coating to cure fully, requiring 48 hours before it is suitable for traffic.

COVERAGE

- Manual application – 1.4 ltrs /m²/ mm thickness
- Spray application – 1.6 ltrs /m²/ mm thickness



RECOMMENDED THICKNESS

- For wet areas, apply a primer coat followed by two coats at a rate of 0.5 liters per square meter per coat.
- For damp proofing, apply a primer coat followed by a single coat at a rate of 0.75 liters per square meter.

Refer to our detailed method statement for guidance on applying the product in areas subjected to constant hydrostatic pressure.

CLEANING

Tools can be cleaned with water while the **PC-Sealcoat® PU 110** is in its wet state. However, once it hardens, only mechanical methods can successfully remove it.

LIMITATIONS

- To maintain the optimal open time of the coating, refrain from using **PC-Sealcoat® PU 110** when the air temperature, substrate temperature, or material temperature surpasses 45°C.
- Delay application on exterior surfaces in the event of potential rainfall.
- Avoid applying over lightweight concrete or foam concrete substrates.

HEALTH AND SAFETY

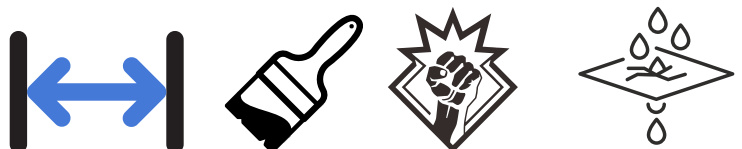
- It is advisable to handle the product with care, as is standard with any construction chemical. Utilize impermeable gloves and barrier cream when working with these products.
- Wear eye protection at all times. In case of accidental eye exposure, rinse thoroughly with ample water and promptly seek medical attention. Should skin contact happen, remove the product before it cures.



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TECHNICAL DATA SHEET UPDATED IN
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TDS/PC-SEALCOAT® PU 110/20



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](http://www.pc-wc.com)