



PC-Sealcoat® PU 80

Hybrid polyurethane waterproof coating featuring solar-reflective effect

PC-Sealcoat® PU 80 represents a premium two-component hybrid polyurethane coating renowned for its remarkable heat and water resistance. This coating's versatility stems from its exceptional weather-resistant characteristics and outstanding penetrative qualities, making it an ideal choice for diverse applications. With superior adhesion, toughness, and flexibility, it forms a resilient and pliable membrane that adheres effectively to various surfaces such as concrete, ceramic tiles, metal, and bitumen membranes.

FEATURES

- Combines toughness with flexibility.
- Highly resistant to water and Heat.
- Excellent heatproof capabilities on metal surfaces.
- Particularly effective on damp surfaces.
- Offers excellent adhesion to substrate.
- Demonstrates exceptional durability.
- Eco-friendly with low VOC.
- Possesses good flexibility and weather resistance.

TECHNICAL DATA

Physical Properties	Test Method	Typical Value
Tensile strength	ASTM D 412	>2 N/mm ²
Elongation	ASTM D 412	>120 %
SRI (white color)	ASTM C 1549	>80
Solar reflectance	ASTM E 1549	>77
Emissivity	ASTM C 1371	<1
Water Vapor transmission (perms)	ASTM E 96	5
Adhesion	ASTM D 4541-17	>2 MPa
Crack bridging	ASTM C 836	Up to 1 mm

APPLICATION INSTRUCTION

The application procedure for coating systems can vary depending on site conditions. Here are some general recommendations for applying PC-Sealcoat® PU 80.

- Start by treating critical areas such as corners and pipe penetrations.
- Use a brush to apply the first coat of PC-Sealcoat® PU 80 around the pipe penetrations and on the corners, extending up to 200mm on each side.
- Strengthen with a fiber mesh or geotextile and then allow the first coat to dry before applying a second coat over it.
- Apply the first coat of PC-Sealcoat® PU 80 on the rest of the area with a brush or roller at 0.50 KG/Sq.M. Then embed reinforcement mesh and allow the first coat to dry.
- Apply a second coat at 0.50 KG/Sq.M. perpendicular to the first coat.

USES

- New and existing roofs, both metal and non-metal.
- Wet areas, such as fountains and swimming pools, both old and new.
- Planter boxes.
- Tiled wet areas, indoor and outdoor.
- Our expertise covers all aspects of waterproofing to ensure long-term protection and durability.

PRODUCTS PROPERTIES

Physical Properties	Typical Value
Touch dry time	approximately 2 hours at 30°C.
Full cure time	7 days
Specific gravity	1.40 (+/- 0.05)
Solid content	75% (+/- 2%)
Application temperature	5 to 40°C
Service temperature	-5 to 70°C
Pot life	60 to 90 minutes
Color	white, grey, or other special colors.

SURFACE PREPARATION

For proper adhesion, the surfaces must be clean and structurally sound. Remove any loose surface and level sharp edges and protrusions. Use industrial-grade detergents or degreasing compounds to remove oil, grease, and wax contaminants. Remove impurities on the surface by grinding, scarifying, and vacuum cleaning. For applying PC-Sealcoat® PU 80 on aluminum sandwich panels or corrugated sheets, ensure proper riveting of joints and replacement of rusted sheets.

MIXING

PC-Sealcoat® PU 80, a two-component product, it's crucial to mix it accurately. Firstly, mix Part A for one minute, making sure to blend it completely. Next, add Part B slowly to the mixture while continuing to mix Part A. Blend the two components together for approximately 3 minutes until it forms a consistent mixture. For optimal results, it's recommended to use a slow-speed double-shaft mixer.



STORAGE

It is recommended to store all materials in a cool, dry, and covered location, as exposure to freezing temperatures can render the material unsuitable for use. When stored correctly, **PC-Sealcoat® PU 80** has a shelf life of at least 24 months.

COVERAGE

1-1.2 Kg/m²

CLEANING

Tools can be cleaned with water while **PC-Sealcoat® PU 80** is still fresh. When hardened, it can only be removed by mechanical means.

HEALTH AND SAFETY

When working with this product, it's essential to exercise caution, as is the case with any construction chemical. It's recommended that impervious gloves and barrier cream are worn while handling these products, and eye protection should also be worn to prevent any accidental eye contamination. In case of eye contamination, flush the affected area with an ample amount of water and seek medical advice. In case of skin contact, it's imperative to remove the product before curing occurs.

PACKAGING

20 Kg pails (19 Kg Part A , 1 Kg Part B)

RECOMMENDED THICKNESS

Proper Coating Application for Wet Areas, Damp Proofing, and Hydrostatic Pressure To ensure successful coating application in wet areas, we recommend applying a primer coat followed by two coatings. Each coating should be at 0.50 Kg/sq.m. In cases of damp proofing, we suggest a primer coat and a single coating, both at 0.50 Kg/sq.m. For areas with constant hydrostatic pressure, please refer to our comprehensive method statement for the correct application process.

LIMITATIONS

The application of **PC-Sealcoat® PU 80** is not recommended if the temperature of the air, substrate, or material exceeds 45°C, as this may decrease the coating's open time considerably. It's not advisable to apply the coating to exterior surfaces when rainfall is expected soon. Furthermore, avoid applying the coating over light or foam concrete.

CLEAN UP

It's possible to clean tools using water while the **PC-Sealcoat® PU 80** is still fresh. Once the coating has hardened, it can only be removed through mechanical methods.



PC-WC GLOBAL FZ-LLC

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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)