



PC-Sealcoat® ACP

Two component acrylic co-polymer based flexible waterproofing coating

PC-Sealcoat® ACP is a waterproofing coating comprising an acrylic copolymer-modified cement base, engineered to establish a resilient and adaptable shield against water infiltration. This solution comprises two fundamental components: a cement-based powder element and an acrylic copolymer-based liquid component. When blended, they produce a seamless slurry that can be delicately applied using a brush, facilitating the creation of a water-resistant barrier on concrete surfaces.

FEATURES

- Excellent adhesion to subsequent tile work.
- Resistant to CO₂ and Chloride and iron diffusion.
- Non Toxic – can be applied to surfaces exposed to clean water.
- Durability : Tough surface with high resistance to weathering effects and UV exposure.
- Flexible and Elastic : bridges up to 0.3 mm cracks in concrete, accommodates movements at corners
- Excellent adhesion to surface : Suitable surfaces would be Porous and non-porous concrete, Block work, and Brick work.

PRODUCTS PROPERTIES

Physical Properties	Typical Value
Form	Cementitious powder
Colour	Grey , off white
Pot Life	30 min to 1 hour
Touch dry time	2 hrs @ 20 dc
Ponding tests	after 72 hrs
Tensile strength ASTM D 412	1.5 N/mm ²
Elongation ASTM D 412	> 45%
Adhesion to concrete ASTM D 4541	1 N/mm ²
Water penetration BS EN 12390	No leakage
Water potability BS 6920	Pass
Pot Life	30-60 min at +20°C
VOC ASTM D 3960	<50g / ltr

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:

APPLICATION

The blended **PC-Sealcoat® ACP** should be applied to the primed surface using either a bristle brush or block brush. Ensure a comprehensive application for improved adhesion. It is recommended to administer a minimum of two coats to attain a thickness of 1.5 mm. Apply the initial coat in a single direction and the subsequent coat perpendicularly to guarantee full coverage.

USES

- Waterproofing swimming pools.
- Installing vapor barriers on facades.
- Implementing damp-proofing measures.
- Applying waterproofing liners to water tanks, reservoirs, sumps, and lift pits.
- Using backing materials for marbles and granites to protect against moisture and contaminants.
- Installing waterproofing layers beneath tiles in wet areas like bathrooms, kitchens, and balconies.
- Applying protective layers to exposed concrete surfaces and surface sealants for crack sealing in both indoor and outdoor waterproofing projects.

SURFACE PREPARATION

The surface must undergo a thorough cleaning process and be structurally sound. Remove any loose materials and conduct essential repairs. Smooth any sharp edges and protrusions to ensure uniform thickness. To eliminate oil, grease, and wax residues, consider using industrial-grade detergents or degreasing agents. Prior to any treatment, it is imperative to eliminate impurities such as cement laitance, mold release agents, and curing membranes. This can be achieved through methods like shot-blasting, grinding, or scarifying, followed by meticulous vacuuming. Before applying any treatment, saturate the surface with water and remove any excess standing water.

MIXING

PC-Sealcoat® ACP is comprised of two pre-measured components that necessitate on-site mixing. To ensure optimal application, only combine an amount that can be utilized within the designated pot life. Commence by transferring the Part B liquid into a clean receptacle, gradually integrating the Part A powder into the liquid. Employ a low-speed drill (300-400rpm) equipped with a suitable paddle mixer to amalgamate the components until a uniform, lump-free, and creamy consistency is achieved. Refrain from diluting the substance with water. Allow the mixture to stand for 2-3 minutes before re-mixing it prior to application.

The coating application process involves utilizing an airless spray with a nozzle size ranging from 3 to 4mm, operating at a pressure of 6 to 7 bar. Following the application of the initial coat, while it remains wet, it is advisable to enhance the resilience of corners and joints by embedding a glass fiber mesh for added durability. Subsequently, the second coat should be applied only after the complete drying of the first coat, which typically takes 6 to 8 hours at a temperature of 25°C and a relative humidity of 50%. To ensure comprehensive safeguarding against carbonation and alkali attacks, it is recommended to apply the coating at a minimum thickness of 1mm.



COVERAGE

- Manual application - 1.8 kg /m²/ mm thickness
- Spray application - 2 kg /m²/ mm thickness

LIMITATIONS

- To maintain the coating's open time, refrain from using **PC-Sealcoat®ACP** when the air temperature, substrate temperature, or material temperature surpasses 45°C.
- Postpone application on exterior surfaces if rain is anticipated.
- Avoid application on lightweight concrete or foam concrete.
- Exercise caution when applying **PC-Sealcoat®ACP** on external surfaces where aesthetic uniformity is paramount, as drying rate discrepancies may lead to slight color variations.

SAFTY

- The product contains cement, which has the potential to cause dermatitis. It is advisable to wear rubber gloves when handling the product. In cases where ventilation is insufficient, proper respiratory protection should be worn. It is important to note that the product is classified as non-hazardous.
- Please refer to the safety data sheet for further information.

CURING

The fully assembled **PC-Sealcoat®ACP** requires protection from rapid drying. It is recommended to allow a minimum curing period of 36 hours before subjecting it to any traffic to achieve optimum strength.

PACKAGING

35 kg kit - Part A 25 kg powder : Part B - 10 kg Liquid

SHELF LIFE

To preserve the quality of **PC-Sealcoat®ACP** store all materials in a sheltered, cool, and dry area on a raised platform like a wooden pallet. Avoid exposing the material to freezing temperatures, as it may cause damage. Proper storage conditions can extend the shelf life of **PC-Sealcoat®ACP** to a minimum of 12 months.

CLEANING OF EQUIPMENT

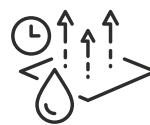
All equipment, application tools must be cleaned with clean water immediately after use.



PC-WC GLOBAL FZ-LLC

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TECHNICAL DATA SHEET UPDATED
IN SEPTEMBER 2020
TDS/PC-SEALCOAT® ACP/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)