



PC Sealcoat® MP

High-performance hybrid polyurea-fluoropolymer protective coating for structures exposed to water, chemicals, corrosion, and severe weather conditions.

PC Sealcoat® MP is a high-performance hybrid polyurea-fluoropolymer liquid protective coating designed for durable protection of concrete, metal, and other compatible substrates exposed to water, chemicals, corrosion, UV radiation, and severe environmental conditions. The formulation combines the flexibility and crack-bridging characteristics of polyurea technology with the weathering and chemical-resistance characteristics associated with fluoropolymer technology. After application and curing, PC Sealcoat® MP forms a seamless, elastic, monolithic protective membrane that reduces moisture ingress and protects the substrate from environmental exposure. It is intended for industrial roofs, exposed metal structures, concrete structures, and selected marine or chemically aggressive environments, subject to project-specific suitability assessment. PC Sealcoat® MP is a cold-applied system and may be applied by brush, roller, or suitable airless spray equipment onto properly prepared substrates. High-build application may allow the specified film thickness to be achieved in one coat, provided the substrate profile, application equipment, and site conditions are suitable.

FEATURES AND BENEFITS

- **Hybrid Polyurea-Fluoropolymer Technology** – Combines flexibility, rapid development of film properties, UV resistance, and chemical resistance.
- **Seamless Waterproofing** – Forms a continuous, seamless protective membrane without laps or joints within the coated area.
- **Cold Applied** – Requires no heating, torch, or open flame for application.
- **High Elasticity & Crack Bridging** – Accommodates normal substrate movement and thermal expansion; crack-bridging performance depends on system thickness and test conditions.
- **Chemical & Corrosion Resistance** – Provides resistance to water, salts and selected acids, alkalis, solvents, and aggressive environments, subject to chemical compatibility.
- **Strong Adhesion** – Provides adhesion to properly prepared concrete, metal, and other compatible substrates.
- **Mechanical Strength & Durability** – Provides durable protection under demanding service conditions.
- **UV & Weather Resistance** – Suitable for prolonged exposure to sunlight, moisture, and temperature variation.
- **High-Build Application** – Can achieve the specified dry-film thickness in a single coat where substrate and application conditions permit.

USE

PC Sealcoat® MP is suitable for protective waterproofing and corrosion-resistant coating applications on properly prepared compatible substrates, including:

- Concrete and metal structures – Industrial buildings, factories, warehouses, roofs, storage facilities, and structural surfaces.
- Industrial and chemical facilities – Selected storage, containment and processing areas exposed to water, salts, acids, alkalis, and other chemicals, subject to compatibility assessment.
- Exposed roofs and structures – Surfaces exposed to UV radiation, heat, moisture, and weathering.
- Infrastructure – Precast concrete elements, tunnels, underground structures, and selected infrastructure applications, subject to project-specific assessment.
- Marine environments – Concrete and metal structures exposed to moisture and marine conditions, subject to system approval.
- PU-insulated surfaces – Polyurethane insulation systems where a compatible protective coating system has been specified

APPLICATION PROCESS

SURFACE PREPARATION:

Substrates shall be sound, fully cured, clean, dry, and free from dust, oil, grease, laitance, loose materials, rust, and other contaminants that may impair adhesion. Weak, friable, or poorly bonded material shall be removed by suitable mechanical means. Cracks, voids, honeycombs, surface irregularities, and damaged areas shall be properly repaired, sealed, and levelled with compatible materials. Metal substrates shall be prepared by suitable mechanical or abrasive methods to remove corrosion, mill scale, unsound coatings, and contaminants. Abrasive blasting, water-jetting, or mechanical cleaning may be used as appropriate to the substrate and project specification. Severely corroded or deteriorated areas shall be repaired before coating. Where specified, PC Rustproof RC® may be used as part of the approved corrosion-treatment system. For profiled metal roofing, joints and overlaps shall be cleaned and sealed with a compatible detailing/sealant system where specified. Where required, self-adhesive butyl tape with non-woven fabric may be installed over sheet-metal overlaps perpendicular to the roof slope to help distribute movement stresses. PC Primer EP-1 may be used where enhanced adhesion, substrate consolidation, or additional durability is required.

PRIMING

PC Sealcoat® MP may be applied directly to properly prepared compatible substrates where permitted by the product and project specification. Where required by substrate condition or project specification, a compatible primer such as PC Primer EP-1 or PC Primer PU-S may be used. Primer selection shall be based on substrate type, surface condition, porosity, and moisture condition. Typical primer consumption: approximately 0.20 kg/m², subject to substrate porosity, profile, and surface condition.

MIXING & PREPARATION

PC Sealcoat® MP is supplied as a pre-packed cold-applied system. Mix/stir the material with a low-speed mechanical mixer for approximately 2–4 minutes, or until a uniform consistency is achieved. Avoid excessive mixing and air entrainment. Do not add alcohol, water, or other unapproved solvents. Where dilution is permitted, use only the manufacturer-approved thinner/diluent and dosage.

APPLICATION

Apply PC Sealcoat® MP onto the properly prepared and, where specified, primed substrate. The material may be applied by brush, roller, or suitable airless spray equipment. For airless spray application, the reference equipment parameters are approximately 2,000–3,000 psi and a 0.025–0.035 inch nozzle, subject to equipment suitability, material viscosity, ambient conditions, and project requirements.

Apply uniformly to achieve the specified dry-film thickness. Where required for suitable self-levelling/film formation, use spiked shoes and a spiked roller only where compatible with the application method and substrate. Do not introduce excessive air into the coating.

CURING & RECOATING

The specified coating thickness may generally be achieved in one high-build coat where conditions permit. Where additional coats are required, apply the subsequent coat within the specified recoat window and only after the previous coat has reached the condition required for recoating. As a reference, the recoat window is approximately 6–48 hours at 22 °C / 50% RH; actual timing is dependent on product configuration, thickness, temperature, humidity, and ventilation.

Curing time varies with substrate condition, coating thickness, temperature, humidity, and ventilation. Protect the applied coating from rain, water, contamination, condensation, and mechanical damage until adequately cured.

APPLICATION /SERVICE CONDITIONS

Parameter	Value
Ambient application temperature	+5 °C to +35 °C
Maximum relative humidity	85% RH
Dew-point condition	Substrate/application temperature at least 3 °C above dew point
Working temperature in air	-30 °C to +80 °C
Short-term temperature resistance	Up to +200 °C (short periods)

PACKAGING :

PC Sealcoat® MP pre packed at standard 20 Liter / pails . its may customised as per requirments .

STORAGE & SHELF LIFE

Store in the original, sealed packaging in a dry and protected place at temperatures between +5 °C and +35 °C. Reference shelf life: 12 months when stored under the stated conditions.

Technical Information

Property	Test Method	Typical Value	Unit
Colour	Visual	Grey	—
Specific weight	UNI EN ISO 2811-1	1.47 ± 0.04	g/ml
Non-volatile substances	UNI EN ISO 3251	84 ± 1	% by volume
Theoretical consumption	—	Approx. 1.75–2.20	kg/m ²
Dry film thickness	—	1,000–1,250	µm
Track-free curing	22 °C / 50% RH	6–8	hours
Rain resistance	22 °C / 50% RH	1–2	hours
Over-applicable	22 °C / 50% RH	24 max.	hours
Fully cured	22 °C / 50% RH	10	days
Carbon dioxide permeability	EN 1062-6	Sd > 50	m
Water vapour permeability	UNI ISO 7783-2	Sd < 5	m
Capillary absorption / water permeability	UNI EN 1062-3	< 0.1	kg/m ² ·h ^{0.5}
Direct tensile adhesion	UNI EN 1542	> 1.5	MPa
Tensile strength	UNI EN 12311-2	> 6	MPa
Elongation at break	UNI EN 12311-2	> 600	%
Shore A hardness	EN ISO 868	70	Shore A
Adhesion to concrete	EN 1542	> 5	MPa
Adhesion to Metal	EN ISO 4624 / ASTM D4541	> 4.5	MPa

SAFETY

Wear protective gear with PC Sealcoat® MP. Avoid vapors and contact with skin and eyes. Use gloves, clothing, and eyewear. Work in ventilated areas. Keep containers closed, away from heat, sparks, and flames. Store out of children's reach. Follow safety guidelines.

CLEANING

Clean tools and equipment immediately after use with a solvent before the material cures. Once PC Sealcoat® MP sets, removal requires mechanical methods. Prompt cleaning is advised to maintain performance and extend tool life.

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TECHNICAL DATA SHEET UPDATED
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TDS/PC SEALCOAT® MP/24

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