



PC-Sealcoat® Elastic

Two-component, cement-based highly flexible, elastomeric waterproof coating

PC-Sealcoat® Elastic is a two-component elastomeric waterproof coating that incorporates polymer-modified cement. This coating is intended for application prior to tiling in various wet environments such as bathrooms, swimming pools, water tanks, terraces, balconies, non-acidic drainage culverts, and similar areas. Suitable for use on concrete and masonry surfaces, this product is engineered with excellent crack-bridging capabilities, even in prolonged water exposure scenarios. Additionally, it serves to protect reinforcements and rebar from corrosion.

FEATURES

- Provides continuous and permanent protection against water infiltration in construction.
- Ensures comprehensive waterproofing, capable of withstanding positive hydrostatic pressure up to 5 atm as per EN 12390-8 standards, and is resistant to negative pressure.
- Exhibits excellent adhesion to concrete under varying hydrostatic pressure conditions.
- Effectively seals hairline cracks up to 0.4 mm width, even if they develop later.
- Maintains water tightness in constructions even if the concrete surface or waterproofing layer sustains damage.
- Suitable for use in potable water tanks and surfaces in contact with food.
- Guards concrete against carbonation.
- Preserves the integrity of reinforcing steel in concrete by preventing corrosion.
- Does not impede the concrete element's ability to "breathe".
- Features a straightforward application process that is cost-effective.

PRODUCTS PROPERTIES

Physical Properties	Typical Value
Base (Component A)	Cementitious powder
Base (Component B)	Acrylic polymer dispersion
Colors (Component A)	grey, white
Colors (Component B)	White
Mixing ratio	Comp A (2.5 parts by weight) Comp B (1 part by weight)
Mixing time	3 min
Pot life	60 min (+20°C)
Bulk density of dry mortar	1.40 ± 0.05 kg/l
Bulk density of fresh mortar	1.70 ± 0.1 kg/l
Compressive strength after 28 days (EN 12190)	10.00 ± 2.00 N/mm ²
Flexural strength after 28 days(EN 12190)	6.00 ± 1.00 N/mm ²
Adhesion strength (EN 1542)	≥ 1.0 N/mm ²
Crack-bridging ability (DIN 18195-2)	0.4 mm
Water vapor permeability (EN ISO 7783-2, Class I < 5m)	Sd=1.40 m
Pot Life	30-60 min at +20°C

USES

It is a waterproofing solution for surfaces like concrete, plaster, wood, and metal, offering flexibility and strong adhesion. Ideal for areas prone to cracks and expansion, such as flat roofs, balconies, and swimming pools. Also useful for waterproofing basements against moisture and water pressure.

SURFACE PREPARATION

- Ensure the substrate is thoroughly cleaned, and devoid of any oil, grease, loose materials, or dust.
- Seal water leaks promptly using **PC-Conrend® Plug**, an ultra-rapid-setting, cementitious leak-plugging mortar.
- Address any voids on concrete surfaces by filling and leveling them with **PC-Conrend®RM** or a cement mortar enhanced with **PC-Conbond® Aid** after eliminating loose aggregates and moistening the surface adequately.
- Trim starter bars and spacers to a depth of approximately 3 cm into the concrete, filling the resulting holes as detailed above.
- Extend existing construction joints in a V shape to a depth of around 3 cm, then fill them according to the same procedure.
- Smoothly fill and round corners, such as wall-floor junctions, using **PC-Conrend®RM** or a cement mortar improved with **PC-Conrend®RM** to create a fillet with triangular cross-section sides measuring 5-6 cm.
- When dealing with masonry walls, meticulously fill the joints or, if necessary, apply a layer of cement mortar enhanced with **PC-Conbond® Aid**.
- To waterproof basements in older structures, remove existing plaster to a minimum height of 50 cm above the water level before following the aforementioned steps.
- For applications requiring flat surface formation, like smoothing or slope creation, consider using **PC-Conrend®** or a mortar enhanced with **PC-Conbond® Aid**.

APPLICATION

The process begins by combining a 25 kg bag of component A with 10 kg of liquid component B while stirring continuously until a consistent, viscous mixture suitable for brush application is achieved. Before application, the substrate should be pre-wetted to a saturated surface dry state. It is essential that the surface intended for the application of **PC-Sealcoat® Elastic** is devoid of any standing water. The material should be applied using a brush in multiple layers based on the water load, with layers exceeding 1 mm thickness to be avoided to prevent potential cracking. Subsequent coatings should only be applied once the previous layer has dried. To safeguard the freshly coated surface, protection from high temperatures, rain, and frost is recommended. When reinforcement of **PC-Sealcoat® Elastic** is required in specific areas (such as inside corners where fillets are unnecessary, junctions, etc.), it is advisable to use a 10 cm wide polyester fleece (30 g/m²) or fiberglass mesh (65 g/m²).



Crack-bridging ability at +23°C (EN 1062-7, Method A)	Class A4 crack width > 1.25 mm
Water penetration under positive hydrostatic pressure (EN 12390-8, 3 days at 5 bar)	No penetration
Water penetration under negative hydrostatic pressure: no penetration (at 1.5 bar)	No penetration

REMARKS

- In case of water under pressure, care should be taken so that pumping, which keeps the water level low, does not stop before **PC-Sealcoat® Elastic** has sufficiently hardened. About 7 days are needed.
- In case of water under pressure, the structure bearing the waterproofing layer (wall, floor, etc.) should be properly designed in order to be sufficiently static to withstand hydrostatic pressure.
- In the case of operational walkable floors, the floor surface waterproofed with **PC-Sealcoat® Elastic** should be protected with a cement mortar layer.
- Temperature during application should be between +5°C and +35°C.
- Due to cement content, component A of **PC-Sealcoat® Elastic** reacts with water forming alkaline solutions, thus is classified as an irritant.
- Consult the directions for safe use and precautions written on the packaging before use.

CONSUMPTION

Depending on the water load, the minimum consumption and appropriate thickness should adhere to the following guidelines.

Water load	Minimum consumption	Minimum thickness
Moisture	2.0 Kg/m ²	1.5mm
Water without pressure	3.0 Kg/m ²	2.0 mm
Water under pressure	3.5-4.0 Kg/m ²	2.5 mm

PACKAGING

35 kg packaging (25 kg cement-based powder mortar + 10 kg emulsion resin), in grey and white.

SHELF LIFE

Component A: 12 months from production date if stored in original, unopened packaging in a frost-free and dry place. Component B: 12 months from production date if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost

CLEANING OF EQUIPMENT

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

HEALTH & SAFETY

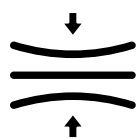
- Wash skin with soap & water. Remove contaminated clothes.
- Immediately splash your eyes with plenty of water. Consult a Physician if irritation persists.



PC-WC GLOBAL FZ-LLC

Compass Building, Al Shohada Road Al-Hamra Industrial Zone-FZ,
Ras Al-Khaimah, UAE
Email: info@pc-wc.com
Phone +971542455817, www.pc-wc.com

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