



# PC-Conbond® SBR

Styrene Butadiene rubber-based multipurpose product designed for waterproofing, bond coats, and concrete repairs.

PC-Conbond® SBR is a premium synthetic styrene-butadiene rubber (SBR) based multipurpose polymer designed for high-performance applications such as waterproofing and concrete repairs. It serves as an effective bond-coat for establishing adhesion between new and existing concrete surfaces. When incorporated into plasters, it enhances the workability of concrete and renders surfaces impermeable to liquids. Its exceptional characteristics make it a suitable choice for DIY waterproofing projects in areas like toilets, bathrooms, plastered masonry, and external walls.

## FEATURES AND BENEFITS

- This versatile polymer enhances the flexibility, elasticity, and tensile strength of cement, effectively mitigating cracks in mortars and cement screeds.
- It establishes a robust bond with various cementitious substrates like concrete, plasters, masonry, and stonework.
- This cost-effective and user-friendly waterproofing solution can be seamlessly applied to diverse substrates by blending it with cement.
- To reinforce waterproofing, a 45 GSM glass fiber mesh can be inserted between the initial and subsequent coats.
- By reducing the water cement ratio, it minimizes permeability, elevates water repellency, and bolsters the flexural strength of concrete, consequently reducing shrinkage cracks.
- It also elevates the substrate's hardness, enhancing abrasion resistance, and reducing dust generation when integrated into floor screeds.

## PRODUCT PROPERTIES

CHARACTERISTICS	Typical Value
Appearance	Milky white liquid
Solid content	47%
Specific gravity @ 25°C	1.03 +/- 0.01 g/cc
pH	9 - 11
Pot life of cement slurry @ 25°C	1 hr

### As concrete repair:

- Expose the spalled concrete upto reinforcement bars. Corroded reinforcement bars must be exposed around their full circumference. They must be cleaned to remove rust or any loose material and must be coated with PC-Conbond® SBR.

## USE

- **Concrete Repair:** This encompasses the restoration of spalled concrete, floors, columns, beams, chugs, and precast segments.
- **Formulation of polymer-modified mortars:** This is achieved by integrating PC-Conbond® SBR into sand-cement mixtures.
- **Waterproofing services:** cater to submerged areas like bathroom slabs, chakras, balconies, terraces up to 750 sq ft, retaining walls, and water tanks.
- It serves as a bonding agent for securing new concrete to existing concrete surfaces.
- It functions as a polymer modifier for floor screeds.

## SURFACE PREPARATION

- Utilize a wire brush or scrubber, or employ a mechanical method to meticulously cleanse the surface. Remove any debris, such as loose materials, dirt, dust, cement residues, mold release agents, oil, rust, scales, old coatings, or any other substances that might impede adhesion.
- To bolster bonding strength with the subsequent coat, create a square or rectangular profile at the edges by cutting the concrete to a depth of 10 mm.
- Completely expose corroded reinforcement bars, eliminate rust and loose materials, and then apply a coating of PC-Rustproof®RC 101 for protection.

## APPLICATION

### Bonding slurry:

- Mix 1 1/2 parts cement to 1 part PC-Conbond® SBR by weight of cement.
- Mix to a lump-free creamy, consistency for 2-3minutes by slowly adding PC-Conbond® SBR.
- Using a stiff brush, work the bonding slurry well into the damp surface. When the bond coat is tacky apply mortar/screed overlay.

### As waterproofing slurry:

- Mix 2 parts cement to 1 part PC-Conbond® SBR by weight of cement.
- Mix to a lump-free creamy, consistency for 2-3 minutes by PC-Conbond® SBR slowly adding
- Using a stiff brush, work first coat of waterproofing slurry well into the damp surface.
- After the first coat has dried, apply second coat at right angle to first followed by mortar/screed overlay. Average time gap between two coats is 3 to 4 hours.



## PACKING

1 kg, 5 kg and 20 kg.

## SHELF LIFE

If stored in its original, unopened packaging in a cool, dry location away from direct sunlight, the product remains viable for up to 18 months from the manufacturing month.

## PRECAUTIONS AND LIMITATIONS

- It is essential to adhere to the recommended mixing ratios to achieve the desired results effectively.
- Avoid overwatering the mix to enhance its workability.
- Ensure thorough saturation of cementitious surfaces with potable water before the application of subsequent coatings.
- When applying a bond coat, ensure that the repair mortar is applied when the surface is tacky. If the bond coat has hardened, consider applying an additional bond coat.
- For waterproofing purposes, a minimum of two coats of waterproofing slurry should be applied, followed by a protective covering layer.
- To cure polymer-modified mortars, it is advisable to cover the surface with polyethylene film or use wet burlap, gunny bags, or hessian cloth. Allow for curing for a period of 3 to 5 days. Avoid water ponding on the surfaces under any circumstances.

## RECOMMENDATION CHART

Usage	Mixing Ratio	Consistency
Bond Coat	1 (polymer):1.5 (cement)	Slurry
Waterproofing slurry Coat	1 (polymer):2 (cement)	Slurry
Repair mortar	1 (polymer):5 (cement): 15 (sand):1 (water)	Thixotropic
Floor Screeds / PCC Topping	1 (polymer):5 (cement) 7.5 (sand):7.5 coarser aggregate:1 (water)	Thixotropic

## HEALTH & SAFETY

Wash the skin with soap and water, remove contaminated clothing, and promptly rinse the eyes with ample water. If irritation persists, seek guidance from a physician.

## DISCLAIMER

The user should determine the usability of the product for its intended use. Our products are manufactured under the PC-WC quality standards, and subjected to strict quality control procedures. Since the company has no control over site conditions and installation procedures, the company will not be responsible under any circumstances for any loss, damage, or liability from incorrect usage.



## PC-WC GLOBAL FZ-LLC

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TECHNICAL DATA SHEET UPDATED IN  
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TDS/PC-COMBOND® SBR/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)