



PC-Conbond® SBR Latex

High-performance SBR-based polymer for waterproofing, repair, and bonding

PC-Conbond® SBR Latex stands out as a premium modified styrene butadiene emulsion designed for enhancing adhesion and water resistance properties when blended with cement slurry, mortar, concrete, or cementitious grout. This product, fully water-soluble, is seamlessly integrated by directly adding it to the gauging water of the respective mixture.

FEATURES AND BENEFITS

- This multi faceted 5-in-1 application serves to improve mortar waterproofing.
- It enhances resistance to salt permeation, increases toughness and flexibility, and mitigates cracking.
- The product exhibits exceptional adhesion to various substrates, including concrete, stone, and brick.
- It reduces the viscosity of cement injection grout and fortifies the bond between injected materials and substrates upon curing.
- Dilution with water up to six times is feasible, depending on the application requirements.
- It effectively minimizes concrete surface dusting.
- The product boosts chemical and frost resistance of concrete.
- It demonstrates notable resistance to water and water vapor, thereby reducing the water-cement ratio while maintaining consistent workability.
- Moreover, it allows application in thinner sections for the prepared mixes.

PRODUCT PROPERTIES

CHARACTERISTICS	Typical Value
Form	Milky white liquid
Specific Gravity@ 30°C	1.03 ± 0.02
pH	7 - 9
Bond Strength, kg/cm ²	Not less than 30
Flexural strength at 28 days, kg/cm ²	Not less than 70

USES

- Utilized for rendering and plastering on brick walls in residential and industrial constructions.
- Applied in silos, basement structures, and as a damp-proof course in residential settings.
- Employed for the restoration of damp walls and mitigation of salt peter issues in brickwork.
- Integral in damp proofing and waterproofing concrete structures like roofs and slabs.
- Implemented in marine and coastal structures to enhance resistance to water exposure.

APPLICATION METHOD

PC-Conbond® SBR Latex is a versatile product that can be effectively combined with cement slurry, mortar, concrete, or grout in specific proportions tailored to each application. Masons appreciate its utility as an additive in repairing mortars and renderings to minimize rebound loss, owing to its thixotropic characteristics. When incorporated as a plaster additive, it proves to be a valuable remedy for addressing issues such as rising dampness, saltpeter action, and damp walls.

Cement Slurry:

Combine 100 g of **PC-Conbond® SBR Latex** with 400 g of clean water. Integrate 1 kg of cement into the blend and stir until achieving a consistent slurry. This amalgamation is adequate to cover an area of approximately 2 m², forming a durable bond coat. Upon the bond coat achieving a tacky consistency, you may proceed to apply an additional coat.

cement slurry Bond Coat:

It is essential to achieve a robust mechanical bond by meticulously cleaning and roughening the surface. Prepare a mixture comprising 2 parts cement and 1 part diluted **PC-Conbond® SBR Latex** (with a Latex to Water ratio ranging from 1:1 to 1:4), and uniformly apply it onto the substrate using a brush. The subsequent application of the top coat should be done while the primer coat is still slightly tacky. The consumption of **PC-Conbond® SBR Latex** for bonding purposes typically ranges from 200 to 300 gm/m², depending on the porosity of the substrate.

Mortar/Render:

Dilute **PC-Conbond® SBR Latex** by mixing it with water. Integrate this diluted **PC-Conbond® SBR Latex** solution into a combination of cement and sand, transforming the mixture into a homogeneous and manageable texture. This approach enhances the efficiency of plastering, which is beneficial for masons. The ratio of dilution for **PC-Conbond® SBR Latex** with water can range from 1:2 to 1:10, based on the extent of water infiltration.

In Concrete:

When preparing concrete using any nominal mix, it is advised to blend **PC-Conbond® SBR Latex** with the gauging water in conjunction with other admixtures. The ideal proportion of **PC-Conbond® SBR Latex** in concrete typically falls between 2% and 6% of the cement weight, or as advised by our Technical Services department. Moreover, for continuous concrete layers, the application of **PC-Conbond® SBR Latex** serves to deter cold joint formation.

PACKING

1 kg, 5 kg, 20 kg and 200 kg container

SHELF LIFE & STORAGE

18 months from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +50C to 400C.

SAFETY

When utilizing or managing the product, it is essential to wear protective hand gloves, safety shoes, and safety goggles. In the event of contact with the eyes or mouth, promptly rinse with copious amounts of clean water and seek immediate medical assistance.

LIMITATION

- The **PC-Conbond® SBR Latex** System should be applied within a temperature range of 10°C to 35°C.
- For bonding or priming, it is advised not to dilute the **PC-Conbond® SBR Latex**; instead, prepare a slurry consistency by mixing neat cement for priming purposes.
- Adhere to standard procedures when filling cracks or grouting: create V-grooves by chipping the crack lines, insert threaded G.I. Nozzles at regular intervals, and utilize quick-setting cement additives.
- Avoid excessive mixing of mortar in a bowl; once it achieves a cohesive state, promptly transfer it.
- Before applying **PC-Conbond® SBR Latex**, ensure all surfaces are adequately wetted to a saturated, surface-dry (SSD) condition.

As Putty For Joints

Combine **PC-Conbond® SBR Latex** with water in equal parts to form liquid A. Blend one part cement with three parts sand to yield powder B. Subsequently, combine A and B in a 1:8 ratio to formulate a putty-like mortar for joint application. Apply this putty on joints in a saturated surface dry (SSD) condition following adequate joint preparation; allow for a curing period of 28 days.

Cementitious Grouts:

PC-Conbond® SBR Latex serves as a versatile additive suitable for various grouting applications such as pocket grouting, base-plate grouting, and injection procedures. When utilizing Latex for injection grouting, the recommended mixture consists of 2 to 3 kg of Latex per bag of cement, combined with other grouting additives. In the context of baseplate and pocket grouting, it is advisable to dilute Latex with gauging water at a proportion of 1:8.

Damp Proof Course:

According to the groundwater level, site location, and seasonal substrate moisture content, the dilution of **PC-Conbond® SBR Latex** with gauging water can be tailored. This mixture can be prepared in ratios of 1:4 or 1:6 and utilized to hydrate the flooring or DPC material effectively. In regions with elevated moisture levels, a slurry coat comprising a blend of 1 part latex, 4 parts water, and 10 parts cement is recommended.

APPLICATION INFORMATION

Application area	Mixing ratio (by weight)	Consumption of mixture	Consumption of PC-Conbond® SBR Latex
Waterproof coating	PC-Conbond® SBR Latex : Water : Cement = 1 : 4 : 8	~900 g/m ² in 2 coats	~70 g/m ² in 2 coats
Bonding coat	PC-Conbond® SBR Latex : Water : Cement = 1 : 4 : 8	~350 g/m ² in single coat	~30 g/m ²
Polymer mortar or Waterproof plaster	PC-Conbond® SBR Latex : Water : Cement : Sand = 1 : 4 : 8 : 32	~2000 kg/m ³	~45 g/m ² per mm thickness
Polymer concrete or Screed	PC-Conbond® SBR Latex : Water = 1 : 5 (Cement, sand, aggregate as per grade)	~2300 kg/m ³	~10 % by weight of cement
Polymer cement injection grout	PC-Conbond® SBR Latex : Water = 1 : 7 (Cement, sand, aggregate as per grade)	~1700 kg/m ³	~7 % by weight of cement



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TECHNICAL DATA SHEET UPDATED IN
SEPTEMBER 2020
TDS/PC-CONBOND® SBR LATEX/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