

## ChemProof SBR

**Water Resistant Polymer Additive / Bonding Agent,  
To Provide Improved Adhesion of Concrete**

**Description:** - ChemProof SBR is a modified styrene butadiene latex emulsion which is specially designed to use as bonding and waterproofing agent. It is an integral adhesive for cement bond coats, mortars and concrete, floors, columns, beams, chhajjas, slabs etc. Waterproofing of toilets and bathrooms terraces etc. It bonds strongly to old and new concrete and to plasters. It reduces shrinkage, prevents cracking dust pick up and improve abrasion resistance.

### Characteristic Parameters

Test Parameters	Specification
Appearance	Milky White Colour Liquid
Specific Gravity at 27°C	1.02 ± 0.02
Ph at 27°C	7 – 9
Solid Content %	40 ± 1
Chemical Resistance	Resists Mild Acids and Alkalis

### Technical Information

Compressive Strength in Mpa ASTM C 109	3 Day	22
	7 Day	32
	28 Day	40
Flexural Strength in MPA ASTM C78	3 Day	10
	7 Day	15
Tensile Strength in MPA ASTM C 190	3 Day	10
	7 Day	15

### Features/Advantages

- ❖ Excellent bond to concrete, masonry, stonework, plaster and block work.
- ❖ Improves mortars to provide waterproof repairs, renders and toppings which are highly resistant to freeze/thaw cycling.
- ❖ Protects against water penetration, salt & carbonation, Non-corrosive to steel & iron Vapor permeable.
- ❖ Reduces cracking through increased mortar flexural strength.
- ❖ Improves bond strengths to hardened concrete.

### Application

- ❖ Modifying / improving bonding of floor toppings, rendering and mortars.
- ❖ Bridge decks, highways and parking area.
- ❖ Toppings, repairs and leveling concrete surfaces
- ❖ Thin sets, terrazzo, stucco and bonding coats.
- ❖ Bridge decks, highways and parking decks.

### Application Methodology

#### Surface Preparation

- ❖ The surface must be clean, sound and free from oil, grease or any other loose materials. If present, cleaning shall be done by scarifying, grinding, wire brush, water blasting, sand blasting and acid washing.
- ❖ The surface should wetted, well prior to application, thoroughly with water to get SSD condition.
- ❖ Depressions are filled and levelled by using ChemProof SBR modified mortar in mixing ratio of 0.4 kg ChemProof SBR, 0.3 kg Water, 2 kg cement and 6 kg fine sand.

## Application and Mixing Procedure

Application	Mix Ratio	Coverage
<b>For Bond Coat</b>	OPC Cement: 50, ChemProof SBR: 13.5 Liter. Water : 22 – 26 Liter	65 to 85 m <sup>2</sup> at 1 mm thickness
<b>For Concrete Topping</b>	OPC Cement: 295.5 kg. ChemProof SBR: 38.5 – 46.5 Liter. Clean Water: 83 – 90 kg. Natural sand: 700 kg. Coarse Aggregate: 645 kg	14 to 15 m <sup>2</sup> at 50 mm thickness
<b>For Mortar/ Patching</b>	OPC Cement: 20 kg, ChemProof : 4 Liter, Zone II sand: 60 kg, Clean Water: 3 kg	11-13 m <sup>2</sup> at 12.5 mm thickness.

**Bonding:**- For bonding toppings with this product, Offshore Chemox strongly recommends using a cement bond coat rather than using this product as a primer by itself. After the surface has been prepared, prime all areas with a bond coat before the topping is applied. Follow mixing and placing instructions listed below. Place the topping on the bond coat before the bond coat dries out.

**Mixing:**- Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 5°C to 32°C. Add the appropriate amount of ChemProof SBR for the batch size and then add the dry material. If using ChemProof SBR with a prepackaged product, reduce the amount of water added to compensate for the latex addition. Mix a minimum of 3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

**Placement:**-Discharge material onto the prepare surface.

**Bond Coat Application:**- Spread the bond coat with a stiff bristle broom until the suggested coverage rate is achieved.

**Concrete Topping Application:**-For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand troweling. On large floor areas, use screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.

**Finishing:**- Finish the repair material to the desired texture. Typical texture is a broom or sponge float finish. Do not add additional water to the surface during the finishing operation.

**Curing:**- Proper curing procedures are important to ensure the durability and quality of the repair or overlayment. To prevent surface cracking, a moist cure should be maintained for 24 hours followed by use of a curing compound such as ChemCure RB or ChemCure WB. Do not use a solvent based curing compound on latex modified mortars.

### **Health & Safety**

- ❖ Before handling product wear suitable protective clothing, gloves, Nose mask, helmet and Goggles.
- ❖ Avoid contact with skin /eyes, and avoid swallowing.
- ❖ Inhalation of dust during mixing should be avoided.
- ❖ If material contacted to skin rinse with plenty of clean water, then cleanse with soap and water.
- ❖ In case of eye contact, wash with plenty of clean water and seek medical advice.

**Packing:** - 1,5, 20, 50 and 200 kg.

**Shelf-Life and Storage Condition:**- Shelf life is 12 months from the date of manufacturing when stored properly in undamaged and unopened original sealed drum. Keep in dry and cool Place & temperature should be +10°C to + 30°C.

### **Our Other Products Ranges Are:-**

- Concrete Admixtures
- Sealants & Primer
- Industrial Floorings
- Concrete Repair Products
- Mould Release Agents
- Adhesive for Tiles, Marbles and Stones
- Concrete Curing Compounds
- Waterproofing Chemicals
- Industrial Grouts
- Concrete Hardeners
- Concrete Bonding Agents
- Joint Filler Grouts for Tiles, Marbles and Stones

Offshore

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#### **OFFSHORE CHEMOX**

(AN ISO 9001: 2015 Certified Company)  
Plot. No.1032/135 BPCL Petrol Pump  
Campus, Gorewada Road, Gittikhadan  
Square, Nagpur- 440013 (Maharashtra)  
Phone:-07304444499, 8412843399  
Email: [info.offshorechemox@gmail.com](mailto:info.offshorechemox@gmail.com)  
Web: [www.offshorechemox.com](http://www.offshorechemox.com)



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