

# CIKObond SBR 150

## Latex additive for cementitious mortar, screed and renders

### Description

CIKObond SBR 150 is a styrene butadiene rubber based bonding and waterproofing agent for use with cement and concrete. It enhances the physical properties such as bond strength, water resistance, elasticity and flexibility of cement binder based systems.

### Properties

- Single component additive and easy to use.
- High resistance to water penetration.
- Reduces permeability and improves durability.
- Improves tensile and flexural properties.
- Resistant to alkalis and ensures compatibility with all types of cement.
- Desirable properties such as water proofing, high bond strength and elasticity can be achieved.
- Considerable reduction in shrinkage cracks.
- It imparts elastic properties that compensate thermal movements to some limits.

### Application area

CIKObond SBR 150 is a high quality additive that can be used in mortars, renders and screeds.

- To make waterproof renders for water retaining structures.
- Tile / brick fixing mortar.
- Bonding agent between old concrete to new concrete in lap joint.
- Waterproof mortar.
- Additive for repair mortar.

### Applicable standards

CIKObond SBR 150 complies with the specification of ASTM C1059.

### Physical Properties

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Form                              | Liquid                              |
| Colour                            | White                               |
| Specific gravity                  | 1.005±0.005 @ 25 <sup>o</sup> C     |
| Toxicity                          | Non-toxic                           |
| Flammability                      | No tendency to flash                |
| VOC (EPA24)                       | <50g/l                              |
| Compressive Strength<br>ASTM C109 | ≥30 N/mm <sup>2</sup><br>1:3 mortar |
| Flexural Strength<br>ASTM C578    | ≥11 N/mm <sup>2</sup><br>1:3 mortar |
| Bond Strength – Slant             | With OPC ≥9 N/mm <sup>2</sup>       |
| Shear ASTM C1042                  | Without OPC ≥7 N/mm <sup>2</sup>    |

### Dosage

The dosage rate of CIKObond SBR 150 will depend on kind of application.

|                                 |                         |
|---------------------------------|-------------------------|
| Additive for repair mortar      | 15% by weight of cement |
| Additive for hard floor topping | 15% by weight of cement |
| Waterproof renders              | 20% by weight of cement |

### Indicative mix design:

|                         | Repair mortar | Floor topping | Renders | W.P Renders |
|-------------------------|---------------|---------------|---------|-------------|
| Cement Kg               | 50            | 50            | 50      | 50          |
| Sand in Kg              | 150           | 90            | 150     | 100         |
| 5mm Aggregate           | Nil           | 60            | Nil     | Nil         |
| CIKObond SBR 150 in lts | 7.5           | 7.5           | 10      | 10          |

Note: Required amount of water to be added to the above mix to achieve required consistency.

### Application instructions

#### Surface preparation

Clean the surface to make it free from dust, oil, loosely adhered particles, paint stains, efflorescence and other contaminations. The surface should be abraded or sand blasted to provide a rough surface to receive the repair mortar.

### Priming:

The prepared surface must be dampened with water and all excess water shall be removed using cotton cloth or sponge. Dilute CIKObond SBR 150 with water at the ratio of 1:1 and apply as a primer coat on the dampened surface. The primer has to be applied just before the application of mortar / floor topping / render / waterproof render.

### Mixing

Depending on the type of application, CIKObond SBR 150 must be mixed at recommended dosage and dilutions using suitable mixers depending upon the volume of mortar that to be mixed.

### Application method – Render applications

The mixed material shall be applied on the primed area using trowel and must be well compacted. In case of repair applications, the repair thickness shall not be more than 40mm. For larger thickness, apply in two lifts to build up the thickness. Keep trowel clean and wet to prevent sticking of material. Do not over trowel.

### Application method – Bonding applications

Mix CIKObond SBR 150 to OPC in the ratio of 1:2 using a heavy duty slow speed drill-paddle assembly. Apply one part of CIKObond SBR 150 diluted with one part water as primer over the prepared surface using brush, roller or spray. Apply the mixed CIKObond SBR 150-Cement slurry over the primed surface using brush, roller or trowel so as to achieve a minimum build-up of 500µ. Pour the new concrete/screed over the CIKObond SBR 150-Cement slurry applied surface still the slurry is in wet and tacky condition.

### Curing

Repair mortar and floor topping must be cured as per standard curing practices.

### Packaging

CIKObond SBR 150 is available in 20 litre pails and 200 litre drums.

### Shelf life

CIKObond SBR 150 has a shelf life of 12 months in un-opened pack and if stored in accordance with CIKO instructions.

### Storage

CIKObond SBR 150 should be stored under enclosed shaded area at temperatures between 5 – 35°C.

### Precautions

- CIKObond SBR 150 should not be used at temperatures below 5°C

### Health & Safety

CIKObond SBR 150 should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

### Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

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- Flooring and toppings
- Grouts and anchors
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- Concrete repair materials
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- Joint Sealants and Moulding compounds
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