

## ConBond SBR

### Mortar & Screed Improver & Adhesive

#### DESCRIPTION

ConBond SBR is a synthetic resin polymer which is supplied as a ready to use liquid. It is designed to improve the qualities of site-batched cementitious mortars and slurries. Being resistant to hydrolysis, it is ideal for internal and external applications in conjunction with cement. It improves the bonding strength of cement renders and plasters to great extent when used as bonding agent slurry.

#### USES & ADVANTAGES

- As a primer/bonding medium for cementitious repairs and plaster mortars to concrete elements or brick/block masonry in both internal and external applications.
- Improving tensile and flexural strengths of sand/cement mixtures thus permitting thinner than usual layers.
- Single-component liquid can be easily gauged as required.
- Improves cohesion and workability.
- Improves mortars to provide waterproof repairs, renders and toppings that are highly resistant to freeze/thaw cycling.
- Improves tensile and flexural properties allowing thin applications.
- Excellent bond to concrete, masonry, stonework, plaster and blockboard.
- Contains no chlorides.
- Can be applied to damp surfaces

#### SURFACE PREPARATION

Any surface to be screeded plastered or patched must be thoroughly clean and sound.

It must be free from grease, oil and any other foreign matter. Laitance, dust, loose particles and any spalling or flaking surface must be removed.

Porous surfaces such as concrete brickwork must be thoroughly dampened to kill suction. Soaking should continue for some 12 hours prior to an application being made. At the time of the application no free water or ponding must be present on the surface.

#### TYPICAL PHYSICAL PROPERTIES OF WET MATERIAL

Appearance	Milky White Liquid
Density	1,00 g/cm <sup>3</sup>
Color Dry	Translucent Clear
Volume Solids	48%

#### PROPERTIES OF FINAL MATERIAL

These vary widely being affected by the quality of the aggregate, the aggregate/cement ratio used and the cement/liquid ratio achieved under the particular water demand of the aggregate. The thoroughness of post curing of the mortar will also play a significant role.

TENSILE STRENGTH improved by  $\pm 40\%$  and FLEXURAL STRENGTH improved by  $\pm 45\%$  using 3:1 sand cement mortar as a control.

#### BONDING/PRIMING (ADHESIVE SLURRY FOR PRIMING)

The gauging liquid consists of equal volumes of CONBOND SBR and clean potable water and 3 parts cements by volume.

These are mixed thoroughly and then gauged with sufficient gauging liquid to give a viscous but easily brushed consistency. The slurry is brushed well into the pre-dampened substrate using a stiff broom or brush. Quality of top layer finishing is made easier and crack resistant if tools are wetted from time to time with neat CONBOND SBR.

## **COVERAGE**

Dependent on application and thickness of application.

## **APPLICATION**

### **PRODUCTION AND PLACING OF MORTAR**

The gauging liquid composition will vary depending upon the thickness of the mortar layer to be placed.

**Mortars up to 12 mm** thickness are gauged with 1 volume CONBOND SBR to 1 volume water.

**Mortars between 12 - 20 mm** thickness are gauged with 1 volume CONBOND SBR to 2 volumes water.

**Mortars exceeding 20 mm thickness** are gauged with 1 volume CONBOND SBR to 3 volumes water.

Mortars are ideally mixed in a pan mixer and mixing time should not exceed 2 minutes to keep air entrapment to a minimum.

The mortar is applied to the still wet slurry, consolidated, levelled and smoothed following good plastering or screeding practice. Finishing is made easier if tools are wetted from time to time with CONBOND SBR.

## **CLEANING**

Tools, brushes and mixing equipment should be cleaned immediately after use and before material has set with plenty of water.

## **PROTECTION ON COMPLETION**

The newly applied mortar must be protected from rain, direct strong sunlight and wind since too rapid drying will produce shrinkage, cracking and reduce cohesion. The newly laid surface must be kept damp for at least 5 days to promote good curing of the Portland cement.

## **MODEL SPECIFICATION**

The adhesive screed improver will be CONBOND SBR, a single-component, latex polymer, applied in accordance with the recommendations of RADIANT Construction Technologies.

## **PACKAGING**

5 & 30 Ltrs. Can and 200 Ltrs. Drum

## **HANDLING & STORAGE:**

**ConBond SBR** has a shelf life of 12 months if kept in a dry cool place in the original packing.

## **HEALTH & SAFETY PRECAUTIONS:**

Where temperatures is less than 5<sup>0</sup> C or greater than 40<sup>0</sup> C are encountered, contact our Technical Staff. **ConBond SBR**, is of low hazard. Protective gloves, goggles and clothing should be worn. Any contact with eyes or skin should be washed off with soap and clean water. Where this occurs, seek medical advice before continuing use.

## **Important Note:**

**RADIANT Construction Technologies** manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, waterproof coatings, grouts & Tile Bond.

Separate Technical Data Sheets are available for these products.