



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 substrate.

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 should be present on the surface.

Technical Specs & Physical Properties

Appearance	Milky white
Consistency	Liquid
Density	1,00 g/cm ³
Color Wet	White
Color when Dry	Translucent clear
High Solids	55%

Properties during use

Consumption

As an ADHESIVE SLURRY:

±400 ml **CONBOND SBR**/m²

(figures are approximate as quantity of **CONBOND SBR** used to produce workability will depend on variations in mix's water demand).

In a MORTAR:

±1.50 L **CONBOND SBR**/m² @ 12 mm

±1.75 L **CONBOND SBR**/m² @ 15 mm

RADIANT Construction Technologies

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±2.00 L **CONBOND SBR**/m² @ 20 mm
±2.25 L **CONBOND SBR**/m² @ 25 mm
±2.50 L **CONBOND SBR**/m² @ 30 mm

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 ±40% and FLEXURAL STRENGTH improved by ±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**.

MIXING

Stir well before use.

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.

A mortar is made from 2 to 4 volumes of dry aggregate – not exceeding maximum 3 mm particle for plasters or 8 mm particle for screeds – dry mixed with 1 volume ordinary Portland cement. This mix is then gauged with the appropriate gauging liquid to produce a stiff but workable material – a so-called earth damp

TEMPERATURE AND RELATIVE HUMIDITY

Do not apply concrete / screeds if temperature is below 5^o C

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**.

Handling & Storage

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

PACKAGING

5 & 30 Ltr. Can / 200 Ltrs. drum

Health & Safety Precautions:

Mamz ConBond SBR is inert and harmless.

Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought.

Important Note:

RADIANT construction Technologies, manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, curing compounds & waterproof coatings. Separate Technical Data Sheets are available for these products.

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