



SBR 500



DIRECTION FOR USE

SURFACE PREPARATION



The object of the surface preparation is to achieve a clean sound surface with a good mechanical key. All substrates should be cleaned and free of dust, plaster, oil, paint, grease, corrosion deposits, and other harmful substances. Laitance should be removed by mechanical means. Smooth substrates must be mechanically roughened, e.g. by scabbling, needle gun or grit blasting to provide an adequate key. Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is always preferable to clean the steel to a bright condition. Use of emery cloth, grit or sandblasting is recommended.

MIXING & APPLICATION



- A forced action mixer is essential (PAN Mixer) & recommended to ensure that SBR 500 mortar is thoroughly mixed. Use a suitable sized drum with a heavy-duty electrical drill machine fitted with a spiral paddle mixer at a slow speed of 400-500 rpm.

- Hand mixing is permissible only for 25 kg or less quantity
- Charge the mixer with the required quantity of clean & dry sand (or coarse aggregates as needed), cement & mix for 1-2 minutes, then add the recommended dosage of SBR 500 dispensed in water which is pre-batched. Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding water until the required consistency is achieved.

WATERPROOFING

- For priming mix SBR 500 in a ratio of 1:2:3 (SBR 500: water: cement).
- For waterproofing coating, mix SBR 500 in a ratio of 1:1 (SBR 500: cement).
- To obtain a smooth consistency, cement should be blended slowly into the liquid.
- Brush apply the first coat in a single direction.
- Brush apply the 2nd coat of the mix in span 4-6 hours on the prepared concrete substrate as per the ratio of 1:1 (SBR 500: cement).
- Second coat will be in the opposite direction to the first coat at 90°.
- Min 2 coats required for general purpose.

CONCRETE REPAIR

- Mix SBR 500 in proportion as follows mix design.
- Portland Cement 50 kg, Sand 150 kg, SBR 500 8-10 Ltr, Water as per requirement.
- Mortar consistency 5 to 25 mm thickness.

BOND COAT

- Concrete substrate should be clean & dampened with water.
- Corrosive area should be removed before applying a bond coat.
- For bonding primer coat mix SBR 500 in a ratio of 1:1 (SBR 500 : Cement)
- Overlay the repair mortar when the bond coat is sticky.

FLOOR SCREED

- Suitable mix ratio for screed & render as follows.
- Mix design – Portland cement 50 kg, graded & washed sand – 75 kg, coarse aggregates 6 mm downsize – 75 kg, SBR 500 4-5 ltr, water as per requirement.
- 10-40 mm thickness consistency.

SBR 500 is a modified styrene-butadiene rubber to be used as a bonding agent in liquid consistency. For modifying and improving bonding of floor toppings, renderings and mortars. It is used to repair Spalled Concrete – Floors, Columns, Beams, Chhajjas, Slabs & Waterproofing of Toilets, Bathrooms and Small Terraces etc. As it bonds strongly to old & new concrete and plasters. It reduces shrinkage, prevents cracking. Standard compliance BS 6319- II

RECOMMENDED APPLICATION SUBSTRATE

- Waterproofing
- Bond Coat
- Concrete Repair
- Floor Screed
- Renderers (Plasters)

BENEFITS & KEY FEATURES

-  EXCELLENT ADHESION
-  EXTRA FLEXURAL STRENGTH
-  GOOD AS REPAIR MORTAR
-  VERSATILE COMPONENT

TECHNICAL SPECIFICATION

Appearance & Form	Milky white liquid
pH Value	7.8 - 9
Solid Content	40 ± 1
Specific Gravity	1.01 ± 0.02
Toxicity	Non Toxic

Additional information: Prepare surfaces thoroughly. Toe-in at edges wherever possible to avoid feather edging. All surfaces, including edges, must be primed. All applications should be wet on wet, and the primer must not be allowed to dry. The level added to water in the mix designs may need adjusting to achieve the required consistency. In general water content should be kept to the minimum necessary. For consistent performance, the use of clean, dry sand is recommended. Where wet sand is used, reduce the added water level as appropriate.

PACKAGING	COVERAGE
500 ml, 1 Ltr, 5 Ltr, 20 Ltr, 50 Ltr & 200 Ltr Containers	<ul style="list-style-type: none"> As waterproof slurry 20-25 sq. ft. / kg in 2 coats As bonding agent 45 - 50 sq. ft. / kg in 1 coat As mortar modifier 2.5-3 ltr per 50 kg OPC cement As Slurry primer-approximately 4 m²/ kg depending on substrate porosity.
	SHELF LIFE
	12 months (from date of packing Should be stored in cool & dry condition, keep away from direct sunlight.

RENDERS (PLASTERS)

Mix SBR in a proportion of 50 kg cement, sand - 150kg, SBR 500 4-5 litres, water 8-1500 0 litres.

For best results do not dilute beyond recommended proportion.