TOP SBR

Polymer Modified Cementitious Waterproofing Agent

PRODUCT DESCRIPTION

TOP SBR is a Styrene Butadiene Polymer latex admixture that is designed as an integral adhesive for cement bond coats, mortars and concrete to improve bond strength and chemical resistance.

USES

- **TOP SBR** is used for concrete/plaster repairs, waterproofing treatment in basement, roof, underground and overhead reservoir, fixing of bricks, tiles, copings etc.
- It is extensively used as bonding agent for cold joint for overlays on bridge decks and for any screed concrete on hardened concrete surface.
- It can also be used in a protective slurry layer for concrete/plaster.
- High performance polymer additive for cement and concrete mixes.

ADVANTAGES

- Strength of adhesion to the base is distinctly improved allowing structural bonds between existing substrate and fresh mortar.
- Gives weather resistant mortar with improved durability impermeability to chlorides and other harmful agents.
- Reduces cracking through increased mortar flexural strength.
- Increases wear resistance under rubber wheeled traffic.
- Reduces cracking through increased mortar flexural strength
- Improves bond strengths to hardened concrete.
- Increased bending tensile strengths.

TECHINICAL PROPERTIES

Color & Appearance	Milky White liquid
Density	1.02 kg/dm^3
Ph	9 - 10
Compressive Strength	60 Mpa at 28 days
Tensile Strength	5.3 Mpa at 28 days
Flexural Strength	9 Mpa at 28 days
Specific Gravity	1.023 ± 0.005

PACKING

TOP SBR is Supplied in 20 Ltr.

STORAGE

12 Months in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost, Empty packs completely and dispose off carefully to protect our Environment.

APPLICATION PROCEDURE

Surface Preparation: Cleaning the concrete to remove all substances that could inhibit the ability of the overlay to bond, such as dirt, oil and grease. It's also necessary to strip away any coatings, sealers or paints that may have been applied to the concrete. Clean the concrete of all residues with a vacuum cleaner and/or pressure washer. Allow the concrete surface to begin drying, and do not place the cementitious bond coat on standing water. Base concrete must be saturated-surface dry to reduce moisture loss.All repair systems need a bond coat to be applied on the prepared surface. The bond coat should be forcefully & evenly brushed into the substrates after the pre-moistened surfaces have dried.

Repair Mortar: The repair mortar should be applied wet-on-wet after the bond coat while it is still fresh. The compositions of bond coat & repair mortar for different cases are given below.In general the dosage of TOP SBR varies as per the actual requirements. In general, for normal repair mortars, we recommend about 8 to 10% TOP SBR by weight of cement. For extreme condition the dosage of TOP SBR should be increased.

Curing: TOP SBR inhibits rapid drying-out of the fresh mortar. The mortar should all the same be suitably protected from rapid drying in order to ensure uniform development of strength.

Please note that all generally applicable regulations and working principles must be observed when using TOP SBR for the production and application of cement mortars/plasters.

MIXING

As Bonding Slurry - high bonding strength

Mix TOP SBR with Portland cement at a rate of 1 part TOP SBR to 1- 2 parts cement (by volume) depending on consistency required. Mix thoroughly until a lump-free homogenous mix is achieved. Brush the bonding slurry vigorously onto the substrate surface to approximately 1 mm thickness. Apply subsequent topping while the bonding slurry is still 'tacky'.

For plastering mortar with high water and chemical resistance. Apply a coat of TOP SBR bonding slurry to the substrate surface as detailed above. Prepare the mix recommended below. Mix thoroughly until a lump-free homogenous mix is achieved. Apply the well mixed plaster to the primed surface at a thickness of approximately 6 to 10mm, while the bonding slurry still 'tacky'. Scratch the plaster and allow to dry for at least 6 hours. Apply a second layer of the plaster to the required thickness and trowelled to desire finished.

Cement	50 kg
Moist Sand	150 kg
TOPSBR	10 ltrs
Water	Approximately 10 ltrs
Coverage	Approximately 8 m^2 at 12mm thickness

For Floor rendering with high abrasion resistance and strengths

Apply a coat of TOP SBR bonding slurry onto the substrate. Prepare the recommended mix stated below; semi-dry consistency mix is desirable. Apply the mix onto the primed substrate to the desired thickness.

Cement	50 kg
Flooring Sand	50 kg
3mm Granite Sand	100 kg
TOP SBR	10 ltrs
Water	As required
Coverage	Approximately 4 m^2 at 25mm thickness

CLEANING

Clean all equipment with water immediately after use.