

TRI- BOND SBR

Bonding agent between old and new concrete

Description

Tri – Bond SBR is a modified styrene butadiene rubber emulsion which is supplied As a ready to use white liquid. It is designed to improve the quality of site-batched cementitious mortars and slurries. Being resistant to hydrolysis, it is ideal for internal and external applications in conjunction with cement.



Uses

- Bonding agent under the cementitious self leveling.
- Bonding agent between old and fresh concrete
- Bonding agent for concrete repair mortar
- Waterproof renders and slurry.
- Concrete cementitious floor leveling
- Bonding agent for slip bricks and tiles.

Advantages

Adhesion : improves bond strength to concrete, stonework, plaster & block board.
 Waterproof: improves durability and waterproofing properties of concrete & plaster.
 Flexibility : reduces cracking by increasing cementitious mortar flexibility.
 Strength : highly improves compressive strength of cementitious mortar & concrete.
 One component liquid can be easily gauged as required

Technical Data @°25c

DISCRETIONS	VALUE
Color	White
Density	0.05±1.01 kg / L
Mechanical Properties	The addition of Tri – Bond SBR to cementitious mortar, improves its mechanical properties. For a control mix of 3 Sand: 1 Cement, the following improvements were achieved when adding 10 lit. Tri – Bond SBR per 50 Kg.Cement.

Test	Control mix	Tri – Bond SBR mix
Compressive Strength ASTM C579	23 N/mm ²	33 N/mm ²
Tensile Strength	2.5 N/mm ²	4.5 N/mm ²
Flexural Strength ASTM C580	7 N/mm ²	11 N/mm ²
Slant shear bond ASTM C882	3 N/mm ²	30 N/mm ²
Shrinkage %	7 %	2 %

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Factory & Head Office:

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Directions for use

Surface preparation

Prepare a good clean structural surface for bonding by removing all loose materials, Old mortars and laitance.

Traces of oil, grease & curing compounds should be removed by chipping out the Affected area of concrete.

Finally sweep or blow off the surface to remove dust which could cause debonding.

Priming

Areas should be pre-wetted and free standing water should be removed.

Apply a slurry coat of **Tri – Bond SBR** to the prepared area.

Mixing

Mix dry ingredients with the required amount of water before adding

Tri – Bond SBR as shown in the Table.

Placing

Tri-Bond SBR Place cementitious mortar / concrete while primer is still wet.

Do not hard trowel or over finish; easily float the surface to reach a final finished.

Materials ----- Mix Type	Cement Kg	sand Zone 2 Kg	Agg. Kg	Water Lt	Tri – Bond SBR Lt	Yield approx. m ³
Cement Slurry	25	-	-	-	10	-
Cementitious Repair Mortar	50	150	-	15	6	0.10
Plaster	50	150	-	15	5	0.10
Foot Screed	50	75	75	15	6	0.10
Bricks – Tiles Mortar	50	125	-	15	8	0.09

Cleaning

Tools should be cleaned immediately with water after use.

Hardened material can only be removed mechanically.

Package

Available in 1-5-20 Lit - pail 200 Lit

Storage

Should be store in original closed container, avoid the direct sun light, mousers.

The storage temperatures (10 – 30) C° t.

Shelf life

Has a shelf life of 24 month stored in dry and cool place



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Health and safety

Avoid inhalation of vapour and contact with skin and eyes. Wear suitable Protective clothing, gloves, eye protection and respiratory protective Equipment. The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then clean with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.



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