

# MEGABOND SBR

## SBR Bonding Agent

### Description:

MEGABOND SBR is a water dispersion of Styrene Butadiene Copolymer. It is characterized with high bonding force and water resistance. It is stable when mixed with wet alkaline conditions. When mixed with concrete, it creates a reinforcing bonding matrix with the cement.

MEGABOND SBR when added to cementitious mix it enhance the mix with higher bonding adhesion power to the substrate, with superior elasticity, impermeability and flexure resistance. The product also, improves the abrasion and acid characteristics of the cured mix.

MEGABOND SBR is suitable for application in concrete, sand/cement mix, flooring screeds and repair compounds. It can be used externally and internally in areas of intermittent or continuous water content. It is especially suitable for renders and as primer to concrete flooring to provide high bonding onto the substrate of low permeability.

### Uses:

- To prepare bonding slurry between old and new concrete.
- Can be added to cement floor screed mixes.
- Additive to enhance water proofing and flexibility for mortars.
- Additive to cementitious tile adhesives to improve flexibility.
- As a primer for cementitious concrete repair products.
- Can be a coat on top of repair products to act as a curing compound.
- To increase the adhesion power of cementitious products.
- To prepare repairing mortar, cementitious rendering, cement slurry, floor screed, high flexible plaster, etc. Please refer to the below dosage table. For more details about application, please contact MATEX Technical Department.

### Advantages:

- Improves adhesion and bonding.
- Suitable for use in damp conditions.
- Improves workability, strength and abrasion resistance.
- Reduces shrinkage and cracking and improves flexibility.
- Improves chemical and water resistance.
- Allows reduction in water content.
- Can be used with concrete in potable water tanks.

### Instructions for Use:

#### Surface Preparation:

All surfaces should be sound, free from laitance, oil and grease. In case of hard or deep contamination, surface should be cleaned by the use of mechanical scrubbing or grit blushing to reach a fresh clean exposed concrete surface.

#### MEGABOND SBR as bonding slurry:

Mix MEGABOND SBR with water and cement 1:1:3 and apply as a bonding slurry between fresh concrete and old concrete, the SBR Bonding Slurry ensures adhesion between new and old concrete additives.

#### Additive for screed flooring application:

Substrates should be saturated with water to avoid possible absorption of water of the mix. Always apply bonding slurry to the substrate before pouring the screed. This will act as an anchorage bonding between the floor screed and the substrate. Ensure that the screed is poured while the bonding slurry is still fresh.

#### Additive for concrete repair:

Be sure to remove all the damaged parts to ensure a sound substrate. Steel reinforcement should be protected by using LAVAFER OR LAVAZINC EP as protection against rust.

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## Mixing:

MEGABOND SBR is ready for direct use. The product must be diluted with water depending to application requirements. Refer to the dosage table below. For further information contact MATEX Technical Department.

## Application:

The diluted bonding agent should be added to the cement mixer and then the cement and aggregate contents can be added. Mix for few minutes till a homogenous, lump free mix is achieved.

## Standards:

MEGABOND SBR conforms to:

- BS 1199,
- ASTM C109, ASTM C 190 , ASTM C932-12, ASTM 1059 TYP 2

TECHNICAL PROPERTIES:	
Appearance	: Fluid liquid
Colour	: Milky White
Density @ 25°C	: 1.05 Kg/Lt.
VOC	: 14 g/L
pH @ 25°C	: 8.0 – 8.5
Temperature Resistance	: +5°C to +90°C
Temperature of Application (Substrate)	: +5°C to +40°C
Solid Contents	: 35%
Flammability	: Non flammable
Expected values when MEGABOND SBR mixed with screed	
Tensile strength (50mm cubes)	: 3.0 Mpa.S
Flexural strength	: 7.0 Mpa.S
Tensile Bond strength	: 2.0 N/mm <sup>2</sup>

## Coverage:

MEGABOND SBR when mixed 1:1 with water and added to 5 kg of cement will approx.. cover 3.0-3.5 square meters at wet application thickness of 1mm

## Packaging:

MEGABOND SBR is supplied in 20 liter jenkins and 200 liter drums.

## Storage Conditions:

Store in original packing in dry conditions away from direct sunlight.

## Cleaning:

Clean all tools with water prior to full drying of product

## Shelf Life:

MEGABOND SBR can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

## Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- In case of eye contact, flush thoroughly with plenty of water and seek immediate medical help.

DOSAGE TABLE:				
USE	MIXTURE RATIO		WEIGHT RATIO	
	MEGABOND SBR	Water	Cement	Inert
Primer in casting resumption	1	1	3	-
Anchorage mortar	1	1	2	-
Plastering up to 10 mm	1	1	1	3
**Screeds from 10 to 50 mm	1	2	1	3
Tiles fixing	1	1	1	2
Patching and repair mortars	1	1	1	3

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

