

MEGABOND SBR^{plus}

Highly Concentrated SBR Bonding Agent

Description:

MEGABOND SBR^{plus} is a high concentrated Styrene-Butadiene copolymer latex bonding agent and admixture with high dispersive properties for use in areas subject to humidity, dampness and water contact. When mixed with cement mortars, plasters or concrete, it improves the water resistance properties by forming a reinforcing polymer that increases long term durability and flexibility of the mix. It can be used externally and internally in areas of intermittent or continuous water contact.

It is especially suitable for renders and as primer to concrete flooring to provide high bonding onto the substrate of low permeability.

Uses:

- Bonding of new to old concrete when used as a slurry coat.
- As an admixture for mortars/screeds/renders.
- 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 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 wet adhesion and plasticity of fresh mortars.
- Suitable for use in damp conditions.
- Improves flexural strength, tensile strength and abrasion resistance of mortars.
- 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. The substrate must then be thoroughly wetted. Remove excess/standing water as it may affect adhesion.

Mixing:

MEGABOND SBR^{plus} is ready for direct use. The product must be diluted with water depending on 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.

Bonding Screeds from 10 to 35 mm

Always apply MEGABOND SBR^{plus} bonding slurry to the substrate just before pouring the screed. MEGABOND SBR^{plus} can be used as an admixture for the preparation of bonding interior and exterior screeds. Add the liquid mix into the mixer as given in the dosage table. Then add cement and the graded aggregate blend (free of fines) to the mix. Mix till homogeneous consistency is achieved. Apply using a trowel and steel float to the desired thickness.

Renders for vertical surfaces

MEGABOND SBR^{plus} can also be used as admixture for internal and external cementitious plastering/render. Add the liquid mix into the mixer as given in the dosage table followed by cement and the graded aggregates (0 – 2 mm). Mix till homogeneous consistency is achieved. Apply the mix material using a spray machine or a trowel and steel float to the desired thickness.

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Patching and Repair Mortars

MEGABOND SBR^{plus} may be used as an admixture for patching and repair mortars. Add the liquid mix to the mixer as in the dosage table followed by cement and graded aggregates. Mix homogeneously and apply over a well-prepared substrate using a trowel.

MEGABOND SBR^{plus} as bonding slurry:

Mix MEGABOND SBR^{plus} with water and cement 1:1:3 by weight and apply as a bonding slurry between fresh concrete and old concrete, the SBR Bonding Slurry ensures adhesion between new and old concrete.

Additive for screed flooring application:

Always apply MEGABOND SBR^{plus} 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.

Standards:

- ASTM C1059 type 2, C 190

TECHNICAL PROPERTIES	
Appearance	Liquid
Colour	Milky white
Density	1.00 ± 0.03 kg/lit
VOC	<15 g/lit
pH@25°C	9.0 – 10.0
Bond Strength (ASTM C1042)	>8.6 N/mm
Temperature Resistance	+5°C to +80°C
Temperature of Application (Substrate)	+5°C to +40°C
Flammability	Non flammable

Expected values when Megabond SBR^{plus} mixed with Screed

Tensile Strength (50 mm cubes)	3.0 Mpa.S
Flexural Strength	7.0 Mpa.S
Tensile Bond Strength	2.0 N/mm ²

*Values indicated may vary depending on the environment and of the material. Figures given are tested according to standard laboratory conditions.

Packaging:

MEGABOND SBR^{plus} is supplied in 20 liter jerrycans and 200 liter drums.

Storage Conditions:

Store in original packing in dry conditions away from direct sunlight. Damaged packaging, high humidity or extreme temperatures may reduce the shelf life. Store between 10°C to 30°C.

Shelf Life:

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

Cleaning:

Clean all tools with water prior to full drying of product. Hardened materials can only be removed mechanically.

Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

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FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to MEGABOND SBR^{plus} Material Safety Data Sheet.

DOSAGE TABLE:				
USE	MIXTURE RATIO		WEIGHT RATIO	
	MEGABOND SBR ^{plus}	Water	Cement	Inert
Primer in casting resumption	1	1	3	-
Anchorage mortar (Bonding slurry)	1	1	2	-
Plastering up to 10 mm	1	4	5.5	20
**Screeds from 10 to 50 mm	1	1	5	15
Tiles fixing	1	1	1	2
Patching and repair mortars	1	1	5	15

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