

IZOLATEX SBR is a one component Styrene butadiene rubber latex bonding agent. It is characterized with high bonding strength, water and chemical resistance. **IZOLATEX SBR** mixing with cementitious admixtures it creates high adhesion to the substrate with superior elasticity, permeability, and flexure resistance.

FIELD OF APPLICATION

IZOLATEX SBR can apply for bonding of new to old concrete, tile bedding, basements, swimming pools, potable water tanks, sludge tank, internal and external wall, exposed and decoupled roofs, sealing and expansion and backing to marble and granite to prevent water ingress and surface staining, to protect from carbonation and chloride attack, etc.

PACKAGING

available in 5 Ltr. & 20 Ltr.

APPLICATION METHOD

Minimum thicknesses which can be apply by using **IZOLATEX SBR** (6-40) mm according to the nature and shape and size of the area which can repair. From the extremities of the application area to depth at least 10mm to avoid feather.

The entire surface must be clean, sound and free from dust and rust.

Remove all laitance, oil and grease, and all the loose particles.

Remove all the excess or loose material by using a wire brush or treatment of broom.

The surface must be prepared by mechanically scrubbing, brushing, or blasting which will give clean exposed concrete surface.

Make sure all the surface must be cured by tap water till it reaches to saturated surface into dry conditions. However surface must be free from water.

STANDARDS

IZOLATEX SBR complies with **ASTM C1059**.

ADVANTAGES

- ↳ Easily to use.
- ↳ Excellent bonding strength and provide flexible mortars.
- ↳ Excellent adhesion and resist salt and chemical attack.
- ↳ Reduces shrinkage and surface cracking.
- ↳ Reduces water absorptions and water vapor transmission.
- ↳ Environmentally friendly, long lasting.
- ↳ Non toxic and chloride free. Suitable for contact with potable water.
- ↳ Increase durability under freeze/thaw cycling.
- ↳ Increase mortar wear resistance.
- ↳ Improve abrasion and chemical resistant of mortar.

MIXING

Selection of materials:

Cement- cement must be ordinary Portland cement.

Sand- should be washed and well grade.

Aggregate- should be granite chips with the size of 3-6mm.

Ratio of **IZOLATEX SBR**

10 Liter / 50 KG of cement.

Standard mortar (sand:cement) 3:1

SLURRY BOND

The surface should be thoroughly soaked with clean water let it dry

A slurry bond should be prepared consisting of 1 volume **IZOLATEX SBR** to 1 volume Clean Water to 3 volumes OPC Cement. Mixing with a low speed mixing Minimum (2-3) minutes are requiring for stirrer until a uniform consistency is achieved that can apply stiff brush, roller or trowel.

Make sure entire surface must be primed, no pinhole are visible. Do not thick coat more than 2mm, if second coat is necessary previous coat must be completely dry and second coat must be perpendicular to the first coat.

DOSAGE TABLE

ITEM	SLURRY BOND By Volume %	Patching & Repair mortar	Floor Screed	Render	Tiles
OPC Cement	3	50	50	50	50
Clean Sand		150	75	150	125
Aggregate 3-6mm		-	75	-	
IZOLATEX SBR	1	5-10Ltr	5-10Ltr	5-10Ltr	5-10Ltr
WATER	1	7-10 Ltr	5-10Ltr	5-10Ltr	7-10 Ltr

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IZOLATEX SBR Bond-Flooring application:

This concerns the use of **IZOLATEX SBR** in concrete screeds and topping over background concrete.

IZOLATEX SBR: Minimum dosage we recommended. There are guide formulations table by using **IZOLATEX SBR** according to the work requirements and mixer should be concrete mixer with pan type to be used. Pour the required quantity of sand, cement and aggregate and dry blend to gather for (3-5) minutes with slow speed with (400-500) Rpm and add the premix **IZOLATEX SBR** as we recommended. Add water slowly until the required homogenous consistency is achieved with the required workability.

Poured the screed based on **IZOLATEX SBR** modified mix placed over the applied wet bond slurry compact and level with screed bar and finish with steel float.

Finishing:

IZOLATEX SBR mortar can be finished by using steel, plastic or wooden float, or by damp sponge finish to achieved desired surface texture. Avoid additional water to the surface during the finishing surface.

Curing:

IZOLATEX SBR mortars and screeds should be taken for appropriate curing after finishing. Non-degradable type of curing compound may be used.

Cleaning:

All the tools must be clean immediately with the tap water before and after work has been done. The cured materials have excellent adhesion and are therefore difficult to remove. The hardened materials should be cleaned mechanically.

Storage & shelf life:

IZOLATEX SBR has 12 month in original closed packaging from date of production. In dry, cool and ventilated area. Keep away from all the resources of heat, direct in the sun or humid area.

Health and safety:

Toxicity: Nontoxic and odorless.

Flammability: Nonflammable

Inhalation: During use avoid inhalation of dust if occur remove to fresh air, apply artificial respiration and/or oxygen if necessary and get medical attention.

Skin contact : -Avoid contact with skin and eyes. In case of contact with eyes and skin wash immediately with tap water and soap.

Eye contact : - In case of eye contact, rinse thoroughly with clean water but do not rub. If swallowed, seek medical attention immediately- Do not vomiting.

Safety : - wear suitable protective clothing, gloves, safety shoe, eye protection and respiratory protective equipment.

TECHNICAL DATA

S.no	Name of test	Result	Test method
1	Color and appearance	White milky liquid	--
2	PH	80.-10	
3	Density kg/Ltr.	1.0±0.05	ASTM 1475
4	Solid content, [%]	48±1	ASTM D- 2939
5	Flexural strength (N/mm ²) 7 days	12±1	ASTM C-580
6	Tensile strength(N/mm ²) 7 days	>7	ASTM C-307
7	Compressive strength (N/mm ²) 28 days	42±1	ASTM C-190
8	Slant Shear strength (N/mm ²)	>6	ASTM C-882
9	M.F.F.T	0°	--
10	Temperature resistance (°C)	-25 to +100°C	--
11	Freeze Thaw resistance passes 5 cylces -10°C	Excellent	--
12	Application temperature (substrate) (°C)	+5 to 40	--

NOTE : THE ABOVE SHOWN TECHNICAL DATA ARE RESULTS OBTAINED IN LABORATORY AND EXTRA DETAILS CAN BE PROVIDED UPON REQUEST. IN ACCORDANCE TO ASTM AND UEAtc STANDARDS RESULTS ARE SUBJECTED TO A VARIATION OF 20 % .



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