

CON-LATEX SBR

STYRENE BUTADIENE RUBBER LATEX-BASED ADDITIVE AND BONDING AGENT FOR CEMENTITIOUS SYSTEMS

DESCRIPTION

Con-Latex SBR - styrene butadiene rubber latex is for use with any cement based mixes. The prime uses being in bonding coats, prior to application of renders, plasters or screeds. **Con-Latex SBR** enhances the structural properties of the concrete and also avoiding cold joints in old-new concrete joints.

ADVANTAGES

- Water resistant
- Enhancement of flexural, tensile and compressive strength of cement mixes
- High bond strength
- Ease of application
- Best suited for repairs and rehabilitation of structures

FUNCTION

Cement mortar mixes using **Con-Latex SBR** polymer modifies the system with interpenetrating polymer films which enhances the adhesion, tensile, flexural and compressive strengths and also imparts excellent resistance to water, water vapour and shows improved chemical resistance.

USES

Con-Latex SBR - for repairing concrete beams, columns and slabs.

Con-Latex SBR - for laying tiles, fixing slip bricks, waterproofing, for abrasion resistant flooring and lining effluent tanks and tubes.

Con-Latex SBR provides excellent adhesion between old and new concrete and hence ensures a monolithic system after repair.

METHOD OF APPLICATION

While using **Con-Latex SBR** to modify mixes, the following procedures need to be religiously followed.

Surface Preparation: Remove all laitance, oil, grease, mould oil, curing compound, etc using a wire brush or for large floor areas, a scrubbing machine. Ensure that reinforcing steel is clean and free from grease or oil, remove scale and rust. When repairing spalled or damaged concrete, ensure that the sound surface is exposed.

Bonding slurry: Ensure that absorbent surfaces such as concrete, brick, stone etc., are saturated surface dry. Prepare bonding slurry consisting of Mix Ratio. **Con-Latex SBR**, Water & Cement: 1:1:5, mixed to a lump free consistency. Using a stiff brush, apply the bonding slurry well onto the damp surface ensuring that no pinholes are visible. Do not apply bonding slurry of thickness in excess of 2mm. If a second coat is necessary, it must be applied after allowing the first coat has caught in.

Preparation of Con-Latex SBR modified mix: It is important that the **Con-Latex SBR** modified mix is applied to the saturated dry substrate. If the bonding slurry dries, another coat must be applied. The proportions and quantities of sand, cement and **Con-Latex SBR** differ for particular applications (see mix design).

Workability: The strong plasticizing action of **Con-Latex SBR** allows the water- cement ratio to be reduced to a minimum consistency with workability required for application.

Mixing: Mixing should preferably be carried out in a concrete mixer although hand mixing is permissible where the total weight of the mix does not exceed 25kg. Charge the mixer with the required quantity of sand and cement, and premix for approximately one minute. Pour the desired quantity of **Con-Latex SBR** and mix for 2 to 3 minutes. Finally, add the water little by little, until the required consistency is achieved. Owing to the strong plasticizing properties of **Con-Latex SBR**, it is best to add the water cautiously as rapid thinning can occur.

Curing: It is preferable to cure **Con-Latex SBR** modified mortars as soon as they are laid, to prevent rapid evaporation of water essential for hydration. This can be achieved by using polythene, damp hessian, or a suitable concrete curing membrane.

SPECIFICATION COMPLIANCE

Con-Latex SBR meets ASTM C 1059-99, Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete, Type II.

COMPATABILITY

Con-Latex SBR is compatible with all cements like OPC, PPC, sulphate resisting and high alumina cements.

PROPERTIES

Supply Form	White Liquid
Specific Gravity	1.020 ± 0.020
Toxicity	Nil

Typical properties of a **Con-Latex SBR** modified cement and sand mix in the proportion of 3 parts sand to 1 part cement (**Con-Latex SBR** dosage 10ltr/bag of cement), are as follows.

Compressive Strength	32 N/mm ²
Tensile Strength	4.5 N/mm ²
Flexural Strength	10 N/mm ²
Water vapour permeability	Reduced by 96%
Adhesion	Excellent to concrete, steel, brick, glass etc
Co-efficient of thermal expansion	(at -20 to +20°C): 12.8x10 ⁻⁶
Chemical resistance	Resists mild acids alkalis sulphates, chlorides, urine, dung lactic acid, sugar etc.

Note: Higher dosage of **Con-Latex SBR** and further reduction in water ratio leads to improved strength properties.

PACKAGING

20kg, 50kg and 200kg.

COVERAGE

For Surface coating application CON LATEX SBR should be used 10 - 20 m² per 1 liter

SHELF LIFE

Indefinite in manufacturer's sealed containers. Avoid prolonged storage in excessive heat.

HEALTH & SAFETY

Avoid contact with skin for prolonged period. Any contact with eye, wash immediately with plenty of water and seek medical attention.

DISCLAIMER

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