

DESCRIPTION

Plastibond SBR is a styrene-butadene co-polymer based product, used in mortar and concrete as an admixture and bonding agent to increase water resistance and durability.

USES

1. bonding : For bonding new concrete to old, tile bedding and fixing of slip bricks
2. Waterproofing internally :
Basements, swimming pools, potable water tanks and towers, sludge tanks and ducts, tunnels and underpasses, computer and plant rooms
3. Waterproof externally :
Walls above ground level
4. Waterproofing suspended floors :
Patio areas, Walkways and balconies, Floors for wet areas, plant rooms
5. Waterproof bonding :
Bricks slips, Copings, Pre-cast treads and risers
6. Waterproof/Protective slurries :
Potable water, sewerage and mild chemical holding tanks, porous concrete, block work or brick work, long term protection reinforcement or friable concrete soffits.
7. Waterproof non-slip finishes :
Car park decks, walkways, balconies, staircases
8. Bonded and water vapour proof thin screeds :
At ground level and on upper floors
9. Repair of concrete :
 - a. Waterproof protection and repair of spalled or damaged concrete, beams and panels, floor patching
 - b. Topping : A waterproof, weatherproof and dust free rendering
 - c. Admixture : As an admixture for cementitious systems. Plastibond SBR improves the durability, waterproofing and abrasion resistance of mortars

FEATURES

- * Excellent bond, flexibility & tensile strength
- * Extreme resistance to water and water vapour
- * Good abrasion and chemical resistance
- * Excellent bonding to asphalt
- * Thin-screed which are water/vapour proof
- * Low water/cement ratio
- * Easier site use
- * Compatibility with all cements
- * Reduces shrinkage
- * Improved flexibility
- * Prevents bleeding
- * Increased durability and toughness
- * Excellent adhesion to steel and concrete
- * Good resistance to salt permeation
- * Good adhesion to brick, glass, asphalt, wood
- * Expanded Polystyrene and most building materials.
- * Prolonged corrosion protection
- * Proven performance
- * Similar thermal expansion and modulus properties to concrete (unlike resin mortars and primers)
- * Can be used with potable water
- * More economical than epoxy or polyester resin mortar

TECHNICAL PROPERTIES

P ^H Value	: 9 – 10.5
Compressive strength	: 40N/mm ² dependant on cement used and workability
Tensile strength	: Upto 6.5 N/mm ² dependant on cement used and workability
Flexural strength	: Upto 13 N/mm ² dependent on cement used and workability
Water vapour Permeability	: 4 mg/m ² / 24 hours through on 11mm ² Thick test piece
Adhesion	: Excellent to concrete Steel, brick, glass etc
Service temperature	: - 20°C to + 60°C
Solid content	: 47%

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APPLICATION INSTRUCTIONS

Surface Preparation :

Surface to which Plastibond SBR mixes are to be applied should be clean, sound and free of loose substances. Remove all laitance, oil, grease, mould oil or curing compound from concrete surface using wire brush, bush hammer or other suitable equipment as appropriate. 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 concrete has been cut back to thoroughly sound material.

Bonding slurry :

Wet down absorbent surfaces, such as concrete, brick, stone etc., ensuring that they are saturated but free of surface water. Prepare a bonding slurry of 1 to 2 parts cement to 1 part of Plastibond SBR, mixed to a lump-free creamy consistency. Using a stiff brush, work the bonding slurry well into the damp surface, ensuring that no pinholes are visible. Do not apply bonding slurry at a thickness in excess of 2mm. If a second coat is necessary, it must be applied after the first coat is touch dry. i.e. after 20 – 40 minutes approximately. The second coat must be applied at right angles to the first to ensure complete coverage (approximately 17 – 25 litres of Plastibond SBR mixed with 50 Kg of O.P. cement will give a creamy slurry which will cover 16 – 38 Sq. mtrs of substrate depending on surface texture and thickness applied)

SBR modified mixes :

Materials : Sand. Sand should be sharp, washed, well graded and free from excessive fines.

Cement : Plastibond SBR is compatible with all Types of OPC, SRC and high alumina cements. However, with high alumina cement hardening will be delayed.

Water : The strong plasticizing action of Plastibond SBR greatly reduces the water cement ratio for any given workability.

Plastibond SBR : Standard dose is 10 – 12 liters per 50 Kg of cement used. For more demanding situations, such as greater exposure to chemicals or wear, 15 liters per 50 Kg of cement is recommended. Mixing should be preferably carried out in an efficient concrete mixer – where available a pan type mixer is recommended. Charge the mixer with required quantity of sand And cement and premix for approximately one minute. Pour the required quantity of

Plastibond SBR and mix for two minutes only to avoid excessive air entrainment. Add water slowly until the required consistency is achieved. Avoid adding excessive water.

Render to vertical surfaces:

Apply the bonding slurry to the prepared surface and then render immediately with Plastibond SBR modified mortar. Apply in Coats to a maximum thickness of 5mm per coat. Several coats can be applied at intervals of 20 – 30 minutes. Thicker coating Can be applied when suitable formwork is used. Finish the surface using wooden float or steel trowel. Screeds & patches based on Plastibond SBR can be laid to any thickness from 60mm to 6mm minimum. After mixing, the Plastibond SBR modified mix should be placed over the still wet bonding slurry, well struck off to level. It may be trowelled to the required finish using a steel trowel.

Curing

Proper curing for Plastibond SBR modified mix is important

Dosage rate

For normal use the standard doses of 12 liters of Plastibond SBR for 50 Kg of Portland cement is recommended.

STORAGE & PACKAGING

Store under cover, away from direct sunlight and protect from extreme temperature. In Tropical climates the product must be stored in air-conditioned environment. Shelf life is Upto 12 months when stored as per recommendations. Available in 20 liter drum.

HEALTH AND SAFETY

As with all construction chemical products caution should always be exercised Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce Vomiting, but call for medical assistance immediately.