

PLASTIBOND SBR

SBR BONDING AGENT

DESCRIPTION

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

USES

Bonding : For bonding new concrete to old, tile bedding and fixing of slip bricks.

Internal waterproofing : Basements, swimming pools, potable water tanks and towers, sludge tanks and ducts, tunnels and underpasses, computer and plant rooms.

External waterproofing of wall above ground.

Waterproofing suspended floors, patios, walkways and balconies, floors of wet areas, plant rooms.

Waterproof bonding for brick slips, copings, pre cast treads and risers.

Waterproof/protective slurries for potable water, sewerage and mild chemical holding tanks, porous concrete block work or brick work, long term protection of reinforcement or friable concrete soffits.

Waterproofing non slip finishes, car park decks, walkways, balconies, staircases.

Vapour barrier for ground level and upper floor slabs.

Repair of concrete : waterproof and repair of spalled or damaged concrete, beams and panels, floor patching. Topping waterproof, weather proof and dust free rendering. As an admixture for cementitious systems. It improves the durability abrasion resistance of mortars.

FEATURES

- Excellent bond, flexural and tensile strength
- Extreme resistance to water and water vapour
- Good abrasion and chemical resistance
- Excellent bonding to asphalt
- Low water/cement ratio
- Easier site use
- Compatible with all cements
- Reduces shrinkage and improves flexibility
- Excellent adhesion to steel,concrete,brick,glass,asphalt,wood,polystyrene board
- Can be used with potable water
- Resists salt permeation

TECHNICAL DATA

pH	9 – 10.5
Specific gravity	1.01
Compressive strength	40N/mm ² , dependent on cement used and workability
Tensile strength	Upto 6.5N/mm ² dependent on cement used and workability
Flexural strength	Upto 13N/mm ² dependent on cement used and workability
Water vapour permeability	4 mg/m ² /24 hours on 11mm thick test piece
Adhesion	Excellent to concrete, steel, brick, glass etc
Service temperature	-20°C to + 60°C
Solid content	47%

PLASTIBOND SBR SBR BONDING AGENT

APPLICATION INSTRUCTIONS

Surface preparation : Surface should be clean, sound and free from 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. Ensure the concrete has been cut back to thoroughly sound material while repairing damaged concrete.

Bonding slurry : Wet down absorbent surfaces such as concrete, brick, stone etc, ensure that they are saturated but free of surface water. Prepare bonding slurry of 1 to 2 parts cement to 1 part Plastibond SBR, mixed to a lump free creamy consistency. Using a stiff brush, apply 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. In case a second coat is necessary, it must be applied at right angles to the first to ensure complete coverage.

Sand used with Plastibond SBR should be washed and well graded. It is compatible with OPC, SRC and high alumina cements. However, hardening will be delayed when used with high alumina cement. The strong plasticizing action of Plastibond SBR greatly reduces the water cement ratio for any given workability.

Standard dosage is 5 – 8 litres per 50 Kg cement. For more demanding situations, such as greater exposure to chemicals or wear, 15 litres per 50 Kg cement and efficient concrete mixer are 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. Add water slowly until the required consistency is achieved. Avoid adding excessive water. On vertical surfaces apply 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 form work is used. Finish the surface using wooden float or steel trowel. On horizontal surfaces screeds and patches based on Plastibond SBR modified mix should be placed over the still wet bonding slurry, well compacted and struck off to level. It may be finished with steel trowel.

CURING

Proper curing for Plastibond SBR modified mix is important

DOSAGE RATE

For normal use with cement sand screed, 5 litres of Plastibond SBR per 50Kg Portland cement is recommended.

PACKING : 20 Lit & 200 litre

STORAGE

Store under shade, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

SHELF LIFE

Upto 12 months when stored as per recommendations.

HEALTH & SAFETY

As with all construction chemicals, caution should 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 help immediately.



Quality Products since 1994

Manufactured by

GULF MEMBRANE & COATING INDUSTRIES WLL

P.O. Box 10266, Manama, Kingdom of Bahrain

Tel : +973 17 770019, Fax : +973 17 774450

Web site : www.gmcibahrain.com - e-mail : baderco@batelco.com.bh