

DESCRIPTION

CRP SBR LATEX is based on modified styrene butadiene latex supplied as a ready to use bonding agent in liquid consistency. It is used for repair of spalled concrete floors, columns, beams, chhajjas & slabs. Waterproofing of toilets & bathrooms, terraces etc. It bonds strongly to old & new concrete and to plasters. It reduces shrinkage, prevents cracking, dust pick up & improves abrasion resistance. It conforms to IS 11356 part 2:2023, BS 6319 Part 2:1983, ASTM C-190-85 and ASTM 881.

AREA OF APPLICATION

- **For concrete repairs :** Spalled concrete of floors, columns, beams, chhajjas, slabs, parapets, etc.
- **For waterproofing :** Roof terraces, sunken portions of toilets & bathrooms, chhajjas & lift pits, balconies & staircases, Liquid & effluent tanks, car decks & walkways.
- **As a bonding agent :** Bonding mortar for tiles & panels, as undercoat for special finishes such as top rendering coat for chemical resistant floors.
- **As a bond coat :** For bonding of new concrete to old concrete, masonry stone work, plastering.
- **For cladding :** Fixing or re-fixing of slip bricks, tiles, stones & marble bedding.
- **As external rendering :** Weatherproof & frost resistant render, high wear & erosion resistant render. As bonding slurry coat for pinhole treatment on concrete surface & as repair mortar for overhead application.

FEATURES & BENEFITS

- **Multipurpose :** It is multipurpose & economical product, easy to use.
- **Cracking :** It prevents cracking by improving flexural strength.
- **Hardness :** Improves the hardness & prevents dust generation.
- **Shrinkage :** Reduces drying & ageing shrinkage cracks.
- **Bonding :** Bonds strongly to concrete, masonry, stonework, plasters, cementitious surfaces, asphalt & most of the building materials.
- **Erosion & corrosion :** Improves erosion resistance & prevents corrosion.
- **Abrasion resistance :** Improves abrasion resistance of the cement mix.
- **Grouting :** Reduces viscosity of cement injection grout for better fluidity & bonding.

METHOD OF APPLICATION

1 SURFACE PREPARATION

- Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance & dust. Degrease the surface by using suitable solvents.
- Repair the spalled concrete portion by saw, cutting the extreme edges of the repair location to a depth of at least 10 mm to avoid featheredging & to provide strong bond.
- Clean the concrete surface to remove any contamination where breaking is not possible.
- Expose corroded rebar in the repairing area fully. Remove all loose scales & corrosion deposits and immediately clean the surface.

2 PRIMING

- For priming of steel surface, apply rust remover to all exposed reinforcement area and wash it with waterjet before applying CRP SBR LATEX on the rebars.
- For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove any excess of water prior to application. Slurry of primer coat is prepared by mixing of 1.5 kg CRP SBR LATEX, 2 liter of water and 5 kg of fresh OPC cement. Slowly mix cement with binder to obtain a smooth consistency. Continue mixing the slurry during application to prevent settlement.



3 MIXING

- A forced action mixer is essential (PAN Mixer) & recommended to ensure that CRP SBR LATEX mortar is thoroughly mixed or use a suitable sized drum with heavy-duty electrical drill machine fitted with spiral paddle mixer at slow speed of 400-500 rpm.
- Hand mixing is permissible only for 25 kg or less quantity.
- Charge the mixer with required quantity of clean & dry sand, cement & mix for 1-2 minutes, then add CRP SBR LATEX as per the dosages recommended. Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding water until the required consistency is achieved. Do not add extra water.

APPLICATION

Sr. No.	Application	Composition	Quantity of CRP SBR Latex	Consistency & thickness
1	Patching & Repair Mortar & dry	• OPC - 50 Kg • Graded sharp & washed & dry sand - 150 Kg • Water - 10 litres	5 litres	Mortar consistency 6-40 mm thickness
2	Heavy duty floor screed	• OPC - 50 Kg • Graded sharp & washed sand 75 Kg • Granite chips (3-6mm) - 75 Kg • Water - 6 litres	5 litres	Semi dry cohesive consistency 10-40 mm thickness
3	Renders	• OPC - 50 Kg • Graded sharp & washed sand 150 Kg • Water - 6 litres	5 litres	Mortar consistency 6-9 mm thickness
4	Bonding Mortar for slip bricks & tiles	• OPC - 50 Kg • Graded sharp & washed sand 125 Kg • Water - 7 litres	5 litres	Mortar consistency 6-40 mm thickness

PROPERTIES	SPECIFICATION	RESULTS
Base		SBR Latex (Styrene Butadiene Rubber)
Coverage		30 - 35 sq.ft./Ltr. for two coats
Mixing ratio	CRP : Water : Cement	1.5 : 2 : 5
Total active solid content		32 ± 2%
Pot life @ 30°C		30 - 45 minutes
Specific gravity at 30°C		1.01± 0.02
pH		7 to 9
Compressive strength N/mm ² - 7 days	(BS6319 part221983)	Passes the specification
Tensile strength, N/mm ²	(ASTM C -190-85)	Passes the specification
Flexural strength, N/mm ²		>9
Slant shear bond, N/mm ²	ASTM 881	30
Chemical resistance to mild acids, alkalies, sulphates.		Resists
Freeze thaw resistance		Excellent

PRECAUTIONS & LIMITATIONS

- Do not add extra water or more than recommended dosage.
- Recommended dosage to be followed to achieve desired results.

PACKAGING

200 ml, 500 ml, 1 Ltr, 5 Ltr, 10 Ltr, 20 Ltr, 50 Ltr, 100 Ltr and 210 Ltr.

DOSAGE

5 KG cement : 2 litres water : 1.5 litre CRP

SHELF LIFE & STORAGE

- Shelf life is 24 months from the date of manufacturing. Store in a cool & dry place in unopened condition (Prevent from direct sunlight).

HEALTH & SAFETY PRECAUTIONS

- Cementitious mortars & slurries modified with CEMSEAL CRP when mixed or when become damp, may release alkali which can be harmful to skin & eye.
- Wear suitable protective clothings, gloves, eye protection and respiratory protective equipment during application.
- In case of contact with skin, rinse with plenty of clean water and then cleanse with soap water.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advise.

SAFETY PRECAUTIONS

- As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately.
- If accidentally ingested, seek immediate medical attention. Reseal containers after use

TECHNICAL INFORMATION & SERVICES

Further information and advice including practical demonstration are freely available from the technical service department of Cemseal Industries Ltd.

NOTE

- Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Cemseal representative.
- Cemseal reserves the right to have the true cause of any difficulty determined by accepted test methods.

Address

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