

FIBCRETE (SBR)

Latex Polymer

DESCRIPTION

Fibcrete (SBR) is a carboxylated styrene butadiene copolymer latex admixture that is designed as an integral adhesive for slurry bond coats, mortars and concrete to improve strength and weather resistance. It is also popularly used as a waterproofing compound.

AREAS OF APPLICATION

- Abonding compound to repair old & damaged columns, beams and soffits.
- Toppings, patches and leveling courses on concrete structured members
- Thin sets, terrazzo, stucco and bonding slurries.
- General reconstruction work and latex modified overlays.
- Passivating coat on reinforcement.

FEATURES & BENEFITS

PREPARATION

- If using this product as a slurry bond coat, the concrete must be a minimum of 3 days old.
- The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabblor, bushhammer, shotblast or scarifier which will give a surface profile of a minimum 3 mm and expose the large aggregate of the concrete.

NOTE: Acid etching is not acceptable

- The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing. Do not place slurry coat on standing water.
- All concrete must possess an open surface texture with all curing compounds and sealers removed.
- All areas should be pre-wetted to reduce moisture loss. Do not place product on standing water.

BONDING

- For bonding toppings with this product, FIBREX strongly recommends using a slurry coat rather than using this product as a primer by itself.
- After the surface has been prepared, prime all areas with a slurry coat before the topping is applied. Follow mixing using drill machine fitted with paddle or small mixer machine. Place the topping on the slurry coat before the slurry coat dries out.

PLACEMENT

- Discharge material onto the floor.
- Topping Application : For patching, spread with a trowel, come-a-long, or a square tipped s hovel to a thickness that matches the surrounding concrete. Finish by hand trowelling.
- On large floor areas, used screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.

CURING

- Proper curing procedures are important to ensure the durability and quality of the repair or overlayment. To prevent surface cracking, a moist cure should be maintained for 24 hours, upto 3 days.



REPAIR APPLICATION

- Structural repairs for columns & beams can be executed using polymer mortar. This is a dry pack method to build up the spalled areas of the cover zone of concrete and has high compressive and tensile strengths. Consult the Technical Service Division of FIBREX-Building Product Division for complete specification and details on SBR repairs.

CLEAN UP

Clean tools and equipment with water before the material hardens.

SPECIFICATIONS

Fibcrete (SBR) meets ASTM C 1059-86, Standard specification for Latex agents for bonding fresh to hardened concrete, Type II.

COVERAGE RATE

(See yield in 'material requirements')

Cement Slurry - 55.7 - 74.3m²
Mortar 9.3 - 11.1m² @ ½" (12.7 mm)
Concrete Topping - 13.9 - 14.9m² @ 2" (50 mm)

MATERIAL REQUIREMENTS

| Mix Type | Cement Slurry | Concrete Mortar |
|--------------------|---------------|--------------------|
| Cement | 50 kg | 50 kg |
| Sand Zone II | - | 125 kg |
| Fibcrete SBR Latex | 11.5 ltr | 8 - 10 ltr |
| Water | 8 - 10 ltr | 8 - 10 ltr |
| Yield | - | 0.1 m ³ |

* Projected coverage is an estimate only and is highly dependent upon sub-base texture and unit weight of aggregate sand.

PRECAUTIONS

- No heavy traffic until the product has cured.
- Protect from freezing.
- Not designed for use on its own as a bonding agent, Fibcrete (SBR) must be used in slurry with Portland cement.

TECHNICAL SPECIFICATIONS

COMPRESSIVE STRENGTH (50mm)

Cubes

| Age: | Strength |
|-----------|------------------------|
| 3 days : | 220 kg/cm ² |
| 7 days : | 280 kg/cm ² |
| 28 days : | 320 kg/cm ² |

TENSILE STRENGTH

| | |
|----------|------------------------|
| 3 days : | 22 kg /cm ² |
| 7 days : | 33 kg /cm |

FLEXURAL STRENGTH

| | |
|-----------------|-------------------------|
| 3 days : | 98 kg / cm ² |
| 7 days : | 143 kg /cm ² |
| Solid Content : | 42% |

| | | |
|------------|---|---------|
| pH Value | : | 10 - 11 |
| Shelf life | : | 2 years |
| Colour | : | White |

TYPICAL MIX DESIGN AND TEST RESULTS Suggested Mortar Mix Design :

| | | |
|--------------------|---|----------------|
| Type I Portland | : | 50 kg |
| Sand | : | 125 kg Zone II |
| Shalimar SBR Latex | : | 8 to 10 ltr. |
| Water | : | 8 to 10 ltr. |

APPEARANCE

Fibcrete (SBR) is a free flowing white liquid. When used as an admixture for mortars and concrete, the colour of the concrete may initially appear somewhat darker than plain concrete. This is due to moisture retention and the colour will lighten up over time as the concrete dries out.

PACKAGING

Available in 1,5,20litre & Project Standard

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