



VITCON 2013 SBR

Styrene Butadiene Copolymer Rubber For Adhesion & Repairs of Concrete Structures

DESCRIPTION

VITCON 2013 SBR is styrene butadiene copolymer rubber that is designed as an integral adhesive for slurry bond coat, mortars and concrete to improve strength and weather resistance. The high flexibility of the copolymer makes the product best suitable for any concrete structural repairs applications.

TECHNICAL DATA

Physical Appearance	Milky White liquid
Specific Gravity	1.02 ± 0.02
Solid Content	42 ± 2

APPLICATION

- General reconstruction work and latex modified overlays
- Toppings, patches and leveling courses on concrete structured members
- Thin sets, terrazzo, stucco and bonding slurries
- Passivating coat on reinforcement

ADVANTAGES

- Improve structure durability by reducing the penetration of chlorides attack and other aggressive chemicals
- Dense, impermeable, mortar for column and beam repairs
- Improves bond strengths to hardened concrete
- Increase mortar tensile strength
- Reduces rate of corrosion while applied on steel bars
- Reduces cracking through increased mortar flexural strength
- Increase mortar wear resistance under rubber wheeled traffic

APPLICATION METHODOLOGY

- Ensure that concrete is at least 3 days old if VITCON 2013 SBR is used as a slurry bond coat. Do not place slurry coat on standing water.
- Ensure that the concrete is clean and rough. Remove all oil, dirt, debris, paint and unsound concrete.



- The surface must be prepared mechanically using a scabbler, brush hammer, shot blast or scarifier which will give a surface profile of a minimum 3 mm and expose the large aggregate of the concrete.
- Use vacuum cleaner or pressure washing to ensure thorough cleaning and removal of all residue.
- Ensure all concrete possess an open surface texture with all curing compounds and sealers removed.
- Pre-wet all areas to reduce moisture loss. Do not place product on standing water.
- For bonding toppings with this product, Polygon strongly recommends using a slurry coat rather than using this product as a primer by itself.
- Prime all prepared surface areas with a slurry coat before applying the topping.
- 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.

Slurry Application:

- Spread the slurry with a stiff bristle broom until the suggested coverage rate is achieved.

Topping Application:

- For patching, spread with a trowel, come a long or a square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand troweling.
- On the large floor areas, use screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.
- Proper curing procedures are important to ensure the durability and quality of the repair or over layment. To prevent surface cracking, a moist cure should be maintained for 24 hours, upto 3 days.
- 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 concrete and has high compressive and tensile strengths.

Suggested Mix:

Mix Type	Unit	Cement Slurry	Mortar
Cement	Kg	50	50
Sand Zone II	Kg	-	125
VITCON 2013 SBR	L	11.5	7 - 10
Water	L	8 – 10	8 - 10



CLEANING & MAINTENANCE

- Clean tools and equipment with water before the material hardens.

HEALTH & SAFETY

- Use mask and hand gloves during application.
- Clean hands with soap water after application.
- Product should not come in contact with the skin, eye or be swallowed.
- In case of contact with skin, rinse with plenty of clean water then cleanse with soap and water. Seek medical advice if irritation persists.
- In case of contact with eye, rinse immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately. Do not induce vomiting.

PACKAGING

Available in 20 kg container. Bulk packaging is available on request.

STORAGE

Must be stored in original packing at ambient temperature, dry place under shed. Protect from direct sunlight.

SHELF LIFE

12 months from the date of manufacture in the original sealed container at ambient temperature.