

SBR- 40®

Edition 01023

Styrene butadiene copolymer latex admixture specifically designed for the modification of cementitious systems

Description

SBR-40 is mainly used in the modification of hydraulic binders in common applications including repair mortar, flooring, rendering, bonding, mineral sealing slurries and as cement based adhesive.

Advantages

- Single component, gauged as required.
- Improves adhesion to concrete, plaster, masonry, stone work, etc.
- Improves weather resistance for mortars
- improves durability and impermeability to chlorides & other harmful agents.
- Provides waterproof screeds, plasters and slurries.
- Improved tensile and flexural properties strength allows thin applications.
- Compatible with all common hydraulic cements.
- Cost effective.

Uses

- Repairs and leveling concrete surfaces.
- Thin sets, stucco and bonding coats.
- Tile adhesives
- General reconstruction work/latex modified Overlays.
- Bridge decks, highways and parking decks.

Standards & Specifications

Color	White liquid
Density	≈ 1 g/Cm ³
Viscosity at 23 °C mPa·s (ISO 2555)	40 – 215
PH	≈ 7.5-10
Dry Solids	≈ 40%
Adhesion to concrete Substrate	≥ 1.5 N/mm ²

Package

SBR-40 is supplied in 5Kg ,10 Kg & 20Kg Jerricans (other sizes maybe available upon request).

Application Instructions

Surface preparation:

In order that maximum bond strength is achieved, all concrete substrates should be sound, clean, and free from laitance, dust, loose particles, grease, oil or any other foreigner matter.

For a high degree of bond in heavily trafficked areas, use enclosed shot-blasting or grinding. All residues must be removed including vacuum cleaning to provide a dry, dust free, open textured surface free from excessive laitance, old adhesives and other contamination.

The substrate must be rough and load bearing. Any water leaks must be stopped and repaired following a proper repair procedure, using **Vicareplug** or **Vicaroc** & **Vicaseal Injection** if required.

Impermeable surfaces such as tiles and terrazzo are to be abraded (diamond grinder) to remove any seals or polishes and thoroughly vacuum cleaned.

Application:

Shake well the container before opening

As for a bonding agent/primer:

1. Immediately before priming, the concrete substrate should be thoroughly dampened with water with any excess being brushed off.
2. The brush or roller can be used to apply **SBR 40** by the coverage of 3 sq. meters per 1 L.
3. If the mixture of SBR and cement are mixed as to be a primer system, the suggested ratio shall be 1-2 parts: 1 part of fresh O.P.C. cement: **SBR 40**, whereas the level of cement may be varied to obtain the required consistency.
4. The coverage for cementitious base primer is about 0.3 – 0.5 L per sq. meter per coat and the thickness of primer should not exceed 0.5mm to minimize the risk of cracking.
5. Place the cement-base patch, render or overlay while the primer is still tacky or wet, usually this should be within 20 minutes depending on conditions.

As for a rendering/plastering:

1. The primer coat should be applied before rendering. If not, the surface to which it is to be applied must be dampened first.
2. The ratio of cement: fine sand : **SBR-40** shall be followed by weight as 50 : 150 : 5
3. The above mixture shall be mixed homogenously and the sufficient amount of water added later to achieve required working consistency. Over addition of water will cause rapid thinning of latex modified mortars owing to the plasticizing effect of the latex.

For ceramic, tile and brick slip bonding adhesive:

1. The basic guideline for mixture ratio of both thin bed and thick bed is suggested as below:

Composition	Thin Bed (up to 3 mm)	Thick Bed (up to 12 mm)
Ordinary Portland Cement, OPC	50	50
Clean fine sand (max. size = 1mm)	50	125
SBR Latex	15	20

2. Additional water can be added to bring the mixture to the right consistency.
3. The porous surface must be pre-dampened without any free water on the surface.
4. The tile adhesive is applied by buttering the back of each tile/brick slip, then push firmly into position.
5. Leave at least 24 hours to set hard before apply any grout to fill the joints in between the tiles/brick slips.

Cleaning of equipment:

Tools, brushes and mixing equipment should be cleaned with water immediately after use and before material has dried.

Health and safety

SBR- 40 should not come into contact with food, mouth, skin or eyes during application. Always wear safety goggles, dust mask and gloves. If skin contact occurs, wash thoroughly with clean water. Should eye contact occur, rinse immediately with plenty of clean warm water for 15 minutes and seek medical advice. If accidentally swallowed, drink 2 cups of clean water and seek medical advice. Keep away from children reach.

Storage & shelf life

SBR- 40 must be stored in closed containers between + 5 C and + 35 C and protected from frost and direct sunlight. If stored according to these conditions and in the original unopened containers, the dispersion will be stable for 12 months following delivery. However some cream formation cannot be ruled out. It is therefore advisable that the dispersion should be stirred, or mixed before use.

Technical support

For any technical support, please consult our technical office or representatives.

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