UNIFIX SBR

MULTIPURPOSE LATEX

UCA-WP-03-0722

DESCRIPTION

UNIFIX SBR is modified styrene butadiene latex emulsion and is used to improve the water and chemical resistance of cementitious systems and to improving adhesion and strength of all types of commonly used mortars.

UNIFIX SBR is resistant to hydrolysis thus can be used for outdoor application.

USES

- For modifying and improving bonding of floor toppings, mortars, concrete and brickwork.
- For Strengthening cold joints between old and new concrete and making them non-permeable.
- For Fixing ceramic tiles, floor screening and mosaic tiling.
- UNIFIX SBR is recommended for use inside as well as outside applications and for sunken areas, toilets, bathrooms etc.
- UNIFIX SBR is used in preparing tiling mortars for thick bed applications.
- Used as primer for cementitious self levelling system after diluting with water

ADVANTAGES

- Single component ready to use as supplied.
- Excellent adhesion to most building substrates like concrete, adhesion plaster, masonry, stone and tile work etc.
- Non-toxic
- Improves flexural, tensile, and thin section fragility of cementitious systems
- Allows breathing thus preventing peeling and scaling with improved durability impermeability to chlorides and other harmful agents.
- Resists carbonation effect, gives a tough, hardwearing surface with effective waterproofing.
- Higher bond and adhesive strength.
- Lower shrinkage characteristics.
- Economical when compared with epoxy mortars.

TYPICAL PROPERTIES

APPEARANCE	MILKY WHITE
SPECIFIC GRAVITY	1.02 ± 0.01 @ 25 °C.
APPLICATION TEMPERATURE	> 5°C
SERVICE TEMP	- 40°C to + 90°C
POT LIFE	Approx. 30 minutes at 25 °C
PACKAGING 5,20 & 200 LITRE	
RESISTANCE Resistant to salts, mild acids and strong alkalis between pH 7 to 14	
MECHANICAL CHARACTERISTICS Typical improvements in mechanical properties of a 3:1 sand/cement mortar using UNIFIX SBR at 15% on cement level.	
WATER VAPOR PERMEABILITY Less than 4g/m/24 hrs, through a 10mm thick test piece.	

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COEFFICIENT OF THERMAL EXPANSION
-20° C to +20°C : 12.8 x 10-6
+20° C to +60°C : 12.9 x 10-6

RESISTANCE TO WATER UNDER PRESSURE - 30M HEAD
Excellent. No water penetration through a 15 mm thick test piece.

STANDARDS

UNIFIX SBR meets the performance requirements of ASTM C – 1059-99- Standard specification for latex agents for bonding fresh to hardened concrete, Type II.

INSTRUCTIONS FOR USE

SURFACE PREPARATION

Surface preparation of the substrate is vital for effective adhesion and bonding of UNIFIX SBR. Free the surface of laitance, loose dust particles, oil, grease and other dirt. Oil or grease can be removed by using a strong industrial detergent or organic degreaser. Wire brush and broom the surface before application. In some cases, the existing concrete may have to be chipped to get to the original, sound substrate.

Weigh out 1 kg UNIFIX SBR in a plastic container of 2 liters capacity. Weigh out 1 kg of fresh ordinary Portland cement. Add the cement gradually to UNIFIX SBR with constant stirring.

Ensure that the cement forms uniform slurry, without any lumps. Stir constantly until all the cement has been added to UNIFIX SBR. Apply this slurry on the properly prepared substrate using a soft 4-inch wide paint brush. Apply in one direction only. Take extra care while applying the slurry to construction joints and honey combed surfaces. Cover voids, holes or pores well with the slurry. After about 12 hours of air drying of the second coat, sprinkle little water on the coated surface at an interval of 2 to 3 hours. Continue sprinkling water for at least two days and only then put the surface to use.

BONDING OLD CONCRETE TO NEW CONCRETE: 1 kg UNIFIX SBR covers about 30 - 35 sq. ft. when mixed with cement and applied in the above described manner.

REPAIRS OF BEAMS, COLUMNS AND SLAB: When using UNIFIX SBR to repair beams, columns or slabs, apply bonding slurry on the reinforcement as well as the surrounding concrete surface when the bonding slurry is still tacky, apply modified mortar by pressing it in existing position.

For higher thicknesses, let the first layer dry overnight and then apply one more layer of bonding slurry.

SCREED MORTARS AND PLASTER: Screeds over water proofing membranes and patch up repairs before application of waterproofing membranes is done with UNIFIX SBR admixed mortars for achieving higher compressive and tensile strength.

UNIFIX SBR is admixed at a dosage of 1.5 liters per 50 kg bag of cement to improve properties of general plaster and screed free from shrinkage crack. All substrates should be cleaned and free of dust, plaster oil, paint, grease, corrosion deposit and any other deleterious substance. Excess laitance should be removed by mechanical means. Best results are obtained when smooth substrates are mechanically roughened or grit blasted or needle scabbled to provide adequate key for installation of UNIFIX SBR for cementitious mixes.

CURING

Curing should be done for at least 24 hours by using moist gunny bags or spraying water on the coated surface area.

CLEANING

Spillages of UNIFIX SBR can be removed with water.

STORAGE & SHELF LIFE

UNIFIX SBR should be protected from extremes of temperature. UNIFIX SBR has a minimum shelf life of 12 month in unopened packaging.

SAFETY PRECAUTIONS

UNIFIX SBR is nontoxic. Any splashes to the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should besought.

Fire: UNIFIX SBR is non-flammable and non-hazardous.

LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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