

WATERPROOFING SBR LATEX



DESCRIPTION

WATERPROOFING SBR LATEX is a synthetic rubber emulsion which when added to cement slurry/ cement mortar/concrete/grout provides good adhesion and water resistance. It comes in the form of a milky liquid. It is fully soluble in water and is to be added directly to the gauging water of mortar/concrete/ cementitious grout.

USAGES

- For waterproofing of roof slabs, sunken slabs, basements, water tanks, sunshades etc. In combination with cement
- As a bonding agent for usages in repair and plastering ♦ For making polymer mortar for repairs mortars etc.
- Treatment for leaching and salt penetrate action ♦ Multipurpose mortar admixture for injection grouts

BENEFITS

- Single component liquid which improves cohesion and workability and easily gauged as required.
- Provides waterproof repairs, renders and toppings which are resistant to freeze/thaw cycling.
- Good tensile, flexural and UV resistant properties which facilitates even thin applications.
- Super bonding to concrete, masonry, stonework, plaster, block board, clip bricks, ceramic tiles etc.
- Free from chloride admixtures, improves the quality of site batched cementitious mortars and slurries.
- WATERPROOFING SBR LATEX power can be diluted with water (1 : 4 - 6) depending on the type of application
- Improves elasticity, flexibility, tensile strength of cement and reduces



TECHNICAL INFORMATION

Appearance	Milky white pourable liquid
Solid content(%)	35±1
Viscosity (cps)	Max. 200 cps (brook field viscosity (spindle 2 at 60 rpm)
Particle size (nm)	140-200 nm
Ph	8.00 – 11.00
Tg(°c)	5-20 °c

PROPERTIES

Typical mechanical properties of 1 : 3 cement sand mortar at w/c - 0.45 for control and w/c - 0.35 for mortar containing SBR (latex) (5 liters / 50 kg cement). Tested in Accordance with BS 6319 & wet cured

Mechanical properties	Control sample	Sample with POWERGRACE SBR (latex)
	Compressive strength N/mm ²	
@ 3 DAYS	11.5	12.5
@ 7 DAYS	13.0	14.5
@ 28 DAYS	22.0	24.0
	Tensile strength N/mm ²	
@ 28 DAYS	2.5	3.5

CHEMICAL RESISTANCE

Cementitious materials have limited chemical resistance, hence adding SBR latex to cement mortars minimizes the damage by aggressive chemicals, acids, gases and water.

APPLICATION INFORMATION

SURFACE PREPARATION

The object of the surface preparation is to achieve a clean sound surface with a good mechanical key. All substrates should be cleaned and free of dust, plaster, oil, paint, grease, corrosion deposits, and any other deleterious substances. Latence should be removed by mechanical means. Smooth substrates must be mechanically roughened e.g. by scrubbing, needle gun or grit blasting to provide an adequate key.

Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is always preferably to clean the steel to a bright condition. Use of emery cloth, grit or sand blasting is recommended.

PRIMING

Reinforcing steel must be primed with zinc rich primer immediately after cleaning. The concrete substrate should be thoroughly dampened with water and any excess removed before being primed by thoroughly scrubbing in a slurry coat of 1 volume SBR (latex) to 1 volume water to 3 volumes fresh cement.

In order to obtain a smooth consistency the cement should be blended slowly into the liquids. Stir frequently during use to offset settlement. Avoid 'puddling' of the slurry coat. The topping must be applied on to the wet slurry. If the slurry dries out it must be removed and the clean substrate re-primed.

TYPICAL MIX DESIGNS

1.Patching And Repair Mortars And Plaster For Masonry.

Cement	50 kg
Zone Ii Sand	150 kg
POWERGRACE SBR Latex	5-9 liters
Recommended Water Addition	11-15 liters
Recommended Thickness	8 to 30mm

2.Heavy Duty Floor Screeds

Cement	50 kg
3-6mm Granite Chips	75kg
Zone ii sand	75kg
POWERGRACE SBR Latex	5-9 liters
Recommended Water Addition	8-12 liters
Recommended Thickness	10 to 25mm

NOTE: The screed should be of a semi-dry cohesive consistency.

CLEANING

Tools and equipment should be washed with water immediately after use.

ADDITIONAL GUIDANCE

- ◆ Prepare surfaces thoroughly. Toe-in at edges wherever possible to avoid feather edging.
- ◆ All surfaces including edges must be primed.
- ◆ All applications should be wet on wet, the primer must not be allowed to dry.
- ◆ The level of added water in the mix designs may need adjusting to achieve the required consistency. In general water content should be kept to the minimum necessary.
- ◆ For consistent performance the use of clean, dry sand is recommended. Where wet sand is used, reduce the added water level as appropriate.
- ◆ Protect uncured mortar from frost.
- ◆ Do not retem per mortar or primer after initial set.
- ◆ Minimum application temperature is 10 °c

PACKAGING

1Ltr | 5 Ltr | 20 Ltr

COVERAGE

Slurry primer - approximately 4- 5 m²/ liter depending on substrate porosity

STORAGE / SHELF LIFE

WATERPROOFING SBR LATEX has a shelf life of 12 months if kept in a dry and unopened condition.

PRECAUTIONS

- ◆ WATERPROOFING SBR LATEX should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn.
- ◆ WATERPROOFING SBR LATEX should not come in contact with skin and eyes or be swallowed.
- ◆ If contact with skin occurs, wash well with soap and water. Eye contamination should be washed thoroughly with clean water and medical advice sought.
- ◆ If swallowed seek medical attention immediately - Do not induce vomiting.

FIRE

WATERPROOFING SBR LATEX is non flammable.

Manufactured & Marketed By :

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