

Description

OSCRETE SBR is a styrene-butadiene co-polymer latex emulsion specifically designed for use in cementitious mixes.

OSCRETE SBR is used as an admixture to improve durability, abrasion resistance, water resistance and strength in screeds, renders, concrete and mortars.

The improvement in physical properties is generally superior to those obtained with other modifying agents.

OSCRETE SBR can also be used with cement as a reliable water resistant bonding primer.

Applications

- Floor screeds and toppings
- Concrete repair mortars
- External rendering
- Waterproofing and tanking
- Bonding new concrete to old
- Repair and patching of concrete floors
- Lining for effluent tanks and ducts
- Fixing brick slips, tiles, artificial stone, kerbs, copings, etc

BENEFITS

OSCRETE SBR modified cement based mixes have the following advantages:

- Significantly increased flexural strength
- Tensile strength increased
- Increased durability and toughness
- Improved frost and abrasion resistance
- Improved resistance to water-borne salt penetration
- Resistance to many chemicals and mineral oils
- Excellent adhesion to steel and concrete
- Improved adhesion to brick, glass, wood, asphalt, EPS and most building materials
- Enhanced corrosion protection

Standards

All Christeyns products are produced in accordance with the ISO 9001:2000 Quality Management Standard and the ISO 14001 Environmental Management Standard.



Addition Rates

Dosage is dependant on application:

Mortars and screeds: Standard dose of 10 litres of OSCRETE SBR per 50kg of Portland cement is adequate.

For extreme conditions, where improved waterproofing and/or chemical resistance is required then dosage should be increased to 15 litres of OSCRETE SBR per 50kg of Portland Cement. (With higher dosages, the extra water addition is very low. Therefore, use of wet aggregates and sand may result in excessive workability)

Bonding coat: Using a mix consisting of 2 parts OPC mixed with 1 part SBR gauging fluid (3 parts OSCRETE SBR: 1 part water) by volume.

Mix into a smooth paste. Primer is brushed onto the prepared surface ensuring there is no freestanding water, using a stiff brush or broom.

Apply topping whilst bond coat is still tacky. If allowed to dry then remove bond coat and reprime using same procedure.

Coverage of bond coat paste: Approx 3m² per litre, depending on smoothness and porosity of substrate surface and applied thickness.

Curing: Correct curing of OSCRETE SBR modified mixes is important. Moisture cure for at least one day and then allow to dry out slowly. Moisture curing is important to ensure hydration of the Portland cement.

The OSCRETE SBR mortar must then be allowed to dry out to permit the latex polymer particles to join together to form a continuous

polymer/concrete matrix.

Typical Properties

Nature: Polymer latex emulsion based on Styrene-Butadiene copolymer

Appearance: Milky white liquid

Relative Density: 1.01 gcm³ at 20°C

Cleaning

All tools should be cleaned immediately with water after use.

If delayed, then use of soap and scouring pad may be required.

Packaging

OSCRETE SBR is supplied in 25, 200 and 1000 litre containers

Storage

Stir before use.

Protect from frost. OSCRETE SBR may be permanently damaged by freezing especially if thawed quickly.

A recommended storage life is 12 months is recommended when stored under normal conditions and temperatures (5°C -20°C)

Handling

OSCRETE SBR is not classified as hazardous however in line with general chemical handling precautions avoid contact with skin or eyes and protective gloves and goggles should worn.

Refer to Material Safety Datasheet for full details.

Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

OSCRETE is a division of Christeyns UK Ltd.
Rutland Street
Bradford
West Yorkshire
BD4 7EA
United Kingdom

Telephone: +44 (0)1274 393286

Fax: +44 (0)1274 309143

e-mail: info@oscrete.co.uk

Website: www.oscrete.co.uk