DANOCRET SBR

Eco-Friendly SBR Latex for Sustainable Repair & Waterproofing

DESCRIPTION

DANOCRET SBR is eco-friendly and environ-friendly liquid Styrene-Butadiene co-polymer latex, free from APEO for use with cementitious composition as water resistant bonding agent, waterproofing coating, and polymer modified repair mortar.

USES

As a polymer modifier in conjunction with cementitious composition, **DANOCRET SBR** is used for:

- Waterproofing basement and retaining wall, lift pit, toilet and bathroom, wet area, water tank, swimming pool, terrace and other areas demanding water tight treatment followed by finishing screed.
- Bonding new cementitious surfaces with old cementitious surface, plaster, stone, brick masonry in repair works.
- Preparations of polymer modified cementitious flooring.
- Preparations of polymer modified cementitious render coat, and repair mortars for repairing spalled concrete, honeycombs, undulations, plaster, etc.
- Preparation of polymer modified cementitious flooring composition for abrasion resistant and non-dusting floor screeds and toppings.
- Preparation of polymer modified bedding mortar for fixing Tiles, slip bricks etc.

FEATURES & BENEFITS

- Eco-Friendly and Environ-Friendly – Safe to use and handle.
- High Flexural and Tensile Properties – Effectively controls shrinkage cracks.
- High resistance to water penetration.
- Improved workability even at lower water to cement ratio.
- Improves cementitious composition – Prevents bleeding, improves flexibility, lowers w/c ratio, increases abrasion resistance, enhances adhesion with the substrate and improves impermeability.
- Anti-Corrosion - Prevents corrosion of embedded steel.
- Robust - Multiple functionality and applications.

PROPERTIES

Properties	**Values**
Appearance	Milky white pourable liquid
Emulsifying System	Synthetic anionic and non-ionic
Total Solids (%)	40.0 ± 1.0
pH at 25^0C	9.5 ± 0.5
Brookfield Viscosity RVT (CPS) SP.3, 20 RPM at 25^0C	10 - 30
Density (gm/cm^3)	1.020 ± 0.005
Compatibility	Compatible with all grades of cement and concrete mixture

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surface to be treated must be clean and sound free of loose dust, laitance, foreign particles, curing compound, mould release agent and other contaminants that may compromise the adhesion of treatment adversely.

Spalled concrete or honeycombed surface should be repaired using polymer modified cementitious repair mortar modified with **DANOCRET SBR**.

Cracks should cut to V-shape and filled using cementitious mortar modified with **DANOCRET SBR**.

Never use **DANOCRET SBR** modified waterproofing slurry on unsound surface, brick bat coba or lime mortar.

Remove excess/standing water from the surface.

The water content in polymer modified cementitious mixes modified with **DANOCRET SBR** shall be adjusted to achieve required consistency and shall be kept to minimum. When wet sand is used in mix, water content shall be reduced as appropriate.

BOND COAT

DANOCRET SBR can be suitably used as ready to use bonding coat to promote the adhesion of cementitious treatments with building materials and is applied using standard paint brush @ 6 to 8 m^2/Kg. (Depends upon the surface condition).

Allow the applied bond coat to become tacky before applying cementitious mortar / screed overlay.

WATERPROOFING SLURRY

2 parts of Cement by weight is gradually added to 1 part of **DANOCRET SBR** by weight in a separate container under continuous stirring until homogeneous lump free creamy consistency mix is obtained. Allow the prepared mix to stand for 5 minutes before using. The prepared mix should be used within 30 minutes after mixing.

Prior to application of waterproofing slurry, damp the surface to be coated by sprinkling water. Avoid formation of puddles of water. Apply the prepared waterproofing slurry uniformly by brush or broom in two coats, the second coat applied perpendicularly on dried first coat within 24 hours of application of first coat.

The 3 Kg. mix of waterproofing slurry shall cover 2m^2 area in two coats.

The applied waterproofing slurry should be protected with cementitious mortar/screed overlay.

POLYMER MODIFIED CEMENTITIOUS MORTAR

Polymer modified cementitious mortar for filling cracks, constructing coving repairing spalled concrete, honeycombs, etc., shall be of following proportion:

MIX PROPORTION OF POLYMER MODIFIED MORTAR

Cement	50 Kg.
Quartz Sand (Zone II)	150 Kg.
DANOCRET SBR	5 Kg.
Water* (W/C - 0.35)	17.50 Litre

*Water content shall be kept at minimum and can be adjusted ± 10% depending upon required consistency.

Initially pre-weight quantity of cement and sand are dry mixed in pan type mixer for 2 minutes. (For batch size below 25 Kg., hand mixing can be carried). Liquid mix consisting of mixture of **DANOCRET SBR** and required quantity of water is then added gradually in to prepared dry mix under constant mixing until the required consistency is achieved.

The prepared mix is placed over the wet bond coat (tacky) and usually applied by trowel to 10mm to 40mm thickness well compacted and finished using wooden or steel trowel.

TYPICAL PROPERTIES OF UN-MODIFIED & MODIFIED MIX

Property	Control Mix	Modified Mix
Mix Composition:		
Cement (Kg.)	50	50
Sand (Kg.)	150	150
DANOCRET SBR (Kg.)	0	5
Water (Ltr.)	22.50	17.50
Compressive Strength, MPa		
3 days	11.2	11.9
7 days	13.4	14.5
28 days	21.5	24.8
Tensile Strength, MPa @28 days	2.3	2.8
Flexural Strength, MPa @28 days	4.9	6.1

CURING

The final layer of applied polymer modified cementitious systems shall be allowed to initially cure for at least 24 hours by spraying water and thereafter shall be allowed to dry out for air curing.

SUPPLY

DANOCRET SBR is supplied in 26 Kg. and 220 Kg. pack sizes.

STORAGE

DANOCRET SBR must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight. The shelf life is 12 months in sealed unopened container.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage. Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application. For further detail, refer to Material Safety Data Sheet.

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