BUILDING CHEMISTRY INDUSTRY

BC MIX SBR : SBR Latex Application Method Statement

Scope

This method statement outlines the process for applying SBR (Styrene-Butadiene Rubber) Latex to enhance the bonding, flexibility, and water resistance of cementitious mixes, as well as to provide waterproofing solutions for surfaces such as concrete, mortar, screeds, and renders.

Materials

SBR Latex polymer (BC MIX SBR)
Cement and sand (as required)
Clean water

Tools:

trowels, mixing paddle, measuring containers, brushes/rollers, bucket, protective equipment

Surface Preparation

Ensure the surface is structurally sound, clean, and free of dust, oil, grease, loose materials, and other contaminants.
If there are cracks or defects, they should be repaired and filled with an appropriate mortar mix.
Lightly moisten the surface, but do not leave standing water.

4. Mixing Procedure For bonding slurry:

Mix 1 part SBR Latex to 1 part cement (by weight).
Add water if required to achieve a brushable slurry consistency.
Use a mechanical mixer to ensure proper blending.
For a screed or render:

Mix SBR Latex with clean water (usually in the ratio 1:1 or as recommended by the manufacturer).
Add this liquid to the dry cement-sand mixture (e.g., 1 part cement: 2-3 parts sand).
Ensure a homogenous mix. Do not add excess water as it may weaken the mix.

Application Procedure

Bonding Slurry:

Apply the bonding slurry to the prepared surface using a stiff brush or roller.

Ensure the slurry is well spread and covers the entire surface.

Immediately apply the new screed, plaster, or mortar while the slurry is still tacky. Do not allow it to dry completely before the next layer.

Waterproofing Coat:

Apply the SBR Latex-cement slurry in 2-3 coats to achieve the required thickness.

Allow the first coat to dry before applying subsequent coats.

Each coat should be applied uniformly and allowed to dry properly.

Screeds/Renders:

Place the mixed SBR-modified mortar onto the bonding slurry or substrate.

Spread and level the mortar using the appropriate tools.

Ensure a smooth and even surface finish.

Finish with a trowel for a smooth surface.

Curing

After application, the surface should be cured to prevent rapid drying.

Keep the surface moist by mist spraying or covering it with wet hessian for 2-3 days, depending on environmental conditions.

Cleaning

Clean all tools and equipment with water immediately after use.

Once the product has hardened, it can only be removed mechanically.8. Safety Measures

Wear appropriate personal protective equipment (PPE), such as gloves, masks, and goggles.

Work in well-ventilated areas.

Avoid contact with skin and eyes.

Follow all relevant local health and safety regulations.

Final Inspection

Inspect the surface for uniformity and ensure that the coating/screed is fully cured.

Check for any signs of defects, such as cracking or delamination.

This method ensures that SBR Latex is applied correctly, enhancing adhesion, flexibility, and waterproofing performance.