FLOWTECH KOREA
CHEMICALS LIMITED
A Mazid Tower (4th Floor), Ka-24, Pragati Sarani, Kuril, Vatara, Dhaka
Phone: +88 01711

TECHNICAL DATA SHEET

MIX & FIX SBR LATEX

High-Performance Bonding Agent, Waterproofing Slurry & Mortar Modifier

DESCRIPTION

Mix & Fix® SBR Latex is a high-grade, single-component Styrene-Butadiene Rubber (SBR) emulsion designed as a multi-purpose bonding agent, waterproofing slurry additive, and polymer modifier for cementitious mortar, screeds, and renders. When incorporated into cement mixtures, it significantly improves inter-coat adhesion, flexural and tensile strength, crack resistance, and water tightness.

TYPICAL USES

Mix & Fix® SBR Latex is a highly versatile polymer modifier suitable for a wide range of structural, waterproofing, and repair applications across residential, commercial, and civil infrastructure project sites:

✓ High-strength bonding slurry for cold joints (connecting new concrete to old substrates).
✓ Waterproof slurry coatings for roofs, basements, tanks, bathrooms, balconies, and damp-prone masonry walls.
✓ Polymer-modified repair mortars for patch repairs, honeycomb filling, and structural concrete restoration.
✓ Crack-resistant plasters, renders, tile bedding mortars, and floor screed overlays.
✓ Anti-corrosion passivation coating for steel rebars

KEY FEATURES

- **Superior Inter-Layer Adhesion:** Provides exceptional bond strength between new and old concrete, brick masonry, plaster, and natural stone.
- **High Impermeability & Waterproofing:** Drastically reduces water absorption and porosity, preventing capillary dampness, salt ingress, and efflorescence.
- **Enhanced Flexural & Tensile Strength:** Increases elasticity and shear strength to absorb structural micro-vibrations and prevent cracking.
- **Reduced Shrinkage & Bleeding:** Inhibits drying-shrinkage cracks in repair mortars, overlays, and plaster beds.
- **Chemical & Abrasion Resistance:** Protects embedded steel reinforcement against carbonation and chloride attack while improving surface wear resistance.
- **Non-Toxic & User-Friendly:** Water-soluble, non-flammable, non-biodegradable, and safe for internal and external application.
- **Passivating Rebar Protection:** High alkalinity and dense film formation shield embedded steel reinforcement against chloride-induced corrosion and carbonation.

PRODUCT INFORMATION

Appearance	Milky White Liquid
Packaging	1 Liter, 5 Liter
Shelf life	24 months from date of production if stored properly
Specific Gravity	**1.01 to 1.03 g/cm³**
Minimum Film Forming Temp (MFFT)	**> 4**°C
Water Absorption	< 0.2% (Modified Mortar with SBR Latex)
pH-Value	7.0 – 8.5

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APPLICATION GUIDELINE

BONDING AGENT	**For new-to-old concrete / Plaster joints** At first, clean the target substrate thoroughly to make it free from dust & oil. Now, prepare the bonding slurry by using **Mix & Fix SBR LATEX.** **Mix Ratio-** 1 Part SBR: 1.5 to 2 Parts Clean Water: 3 Parts OPC Cement. **Application:** Mix liquid components first, then gradually add cement while stirring continuously with a mechanical stirrer until a smooth, lump-free slurry is formed. Apply this slurry on the surface by one coat. Apply fresh concrete or plaster overlay immediately while the bonding slurry is still wet. **Coverage:** Approx. 0.25 to 0.35 L of SBR Latex per m² (yields approx. 4.5–6.0 m²/L slurry).
WATERPROOF COATING	**For roofs, bathrooms & damp protection:** Mix SBR Latex with cement to form a brushable waterproofing slurry. Do not add excess water. It can be applied on concrete, masonry and rebar exposed rebar to provide waterproofing and anti-corrosion protection. **Mix Ratio (by Weight):** 1 KG SBR Latex: 1 to 1.2 KG OPC Cement **Application:** Apply the first coat using a stiff brush, ensuring it penetrates substrate pores and micro-cracks. Allow the first coat to dry for 6 to 8 hours, then apply the second coat perpendicular to the first coat. **Coverage:** Approx. 0.50 to 0.65 L of SBR Latex per m² for a 2-coat application (0.8–1.0 mm total dry thickness).
DAMP & CRACK RESISTANT PLASTER	**For crack-resistant general plastering:** Add **Mix & Fix® SBR Latex** into standard cement-sand mortar mixes to significantly boost bond adhesion, enhance water tightness, improve workability and prevent dry-shrinkage cracks in plasters. **Mix Ratio:** 1 to 2 KG SBR Latex per 50 KG bag of Cement + Sand + Water
REPAIR MORTAR	**For Concrete Patch Repair Mortar:** Mix 5 kg SBR Latex per 50 kg bag of OPC cement with sand (1:3 ratio) and minimal water. Apply a bonding coat to the SSD substrate first. Pack the repair mortar tightly into concrete cavities while the slurry is wet, trowel to finish, and wet-cure for 3 days. **Mix Ratio:** 5 KG SBR Latex per 50 KG cement bag + Sand (1:3 ratio) + required water for workability. **Coverage:** Approx. 2.5 to 3.0 L of SBR Latex per 100 KG mortar mix.

PRODUCT DATA REFERENCE

All technical data provided in this Product Data Sheet are based on laboratory testing. Actual performance may vary depending on specific site conditions.

IMPORTANT CONSIDERATIONS

Substrate & Bonding: Always pre-dampen surfaces to SSD condition, and apply mortar immediately while the bonding slurry is wet and tacky.

Curing & Safety: Protect fresh repair mortar from rapid drying with wet hessian cloth for 3 days; wear gloves, safety glasses during application.

LEGAL NOTES

The information and recommendations provided, particularly regarding the application and end-use of the product, are given in good faith based on our current knowledge and experience under standard conditions, assuming proper storage, handling, and use in accordance with our guidelines. However, due to variations in materials, substrates, and actual site conditions, no warranty is given—express or implied—regarding merchantability, fitness for a particular purpose, or any legal liability arising from the use of this information or product. Users are solely responsible for evaluating the product's suitability for their specific application. We reserve the right to modify product properties without prior notice.

FLOWTECH KOREA CHEMICALS LTD.

Headoffice: Pungse-myeon, Dongnam-gu, Cheonan-si, Chungcheongnam-do, South Korea
Dhaka Office: Ka-24, A mazid tower, Pragati sarani, Kuril, Vatara Dhaka, Bangladesh.
Phone: +8801313444701
www.flowtech.kr