LATEX BOND

SBR Polymer Additive for Mortar & Concrete

Product Description:

LATEX BOND is a high-quality styrene-butadiene rubber (SBR) polymer emulsion designed to improve the adhesion, flexibility, and durability of cement-based mixes. It can be used as a bonding agent and as an additive for cement mortars, screeds, and concrete to enhance their physical and mechanical properties.

Features & Benefits

- Greatly improves adhesion to concrete, masonry, stone, and steel.
- Increases compressive and tensile strength.
- Reduces cracking and shrinkage.
- Enhances resistance to water and chemicals.
- Improves workability and flexibility.
- Reduces permeability and dusting.

Uses & Applications

- As a bonding agent between old and new concrete.
- As an additive for cementitious mortars and screeds to improve adhesion, strength, and flexibility.
- For repair mortars in structural and non-structural applications.
- As an improver for waterproofing mortars and renders.
- For floor toppings, patch repairs, and tile adhesives.

Technical specifications :

Property	Value
Appearance	Milky liquid
Density @ 25°C	**1.01 ± 0.03 g/cm³**
Solid content	**48 % ± 2 %**

Instructions for use:

1. Using **LATEX BOND** as an Additive for Strengthened Mortar

A. Purpose:

- To improve adhesion, compressive strength, flexibility, workability, and waterproofing performance of cement mortar.

B. Recommended Mixing Ratios

- **Cement Mortar (1 Cement : 3 Sand)**
- **LATEX BOND:** 10–20% of cement weight
- **Water:** Reduce water by 10–20% depending on workability
- **Example:**
  If using 50 kg cement → add 5 to 10 kg LATEX BOND

C. Mixing Procedure

- **Dry mix** cement and sand thoroughly until uniform.
- **Prepare mixing liquid:**
  - Combine **LATEX BOND + water** in a separate container.
  - Typical ratio:
    1 part LATEX BOND : 1–2 parts water depending on desired consistency.
- Add the liquid mixture gradually into the dry ingredients.
- Mix mechanically or manually until a homogeneous, smooth mortar is obtained.
- Apply immediately while workable.

D. Application Notes

- Apply the modified mortar within **30–45 minutes**.
- Avoid adding excess water during application.
- Proper curing is required to prevent rapid drying.

2. Using **LATEX BOND** as a Bonding Agent (Slurry Coat)

A. Purpose:

- To improve adhesion between **old concrete** and **new concrete or mortar**.

B. Bonding Slurry Mix Ratio

- **LATEX BOND:** 1 part
- **Water:** 1 part
- **Cement:** 1.5–2 parts
  This produces a **brushable bonding slurry**.

Application Procedure

1. Ensure substrate is **clean, sound, and free from dust, grease, loose particles**.
2. Pre-wet the surface but avoid standing water.
3. Apply the bonding slurry using a **brush or roller** ensuring complete coverage.
4. Apply new mortar or concrete **while the bonding coat is still tacky** (within 10–20 minutes).
5. Do **not** allow the bonding layer to dry completely. If it dries, reapply a fresh coat.

Important Notes

- Do not dilute **LATEX BOND** excessively; it reduces adhesion strength.
- Avoid application under direct sunlight or on extremely hot surfaces.
- For high-strength repair works, increase **LATEX BOND** content to **20–25%** of cement weight.

Packaging & Storage

- **Packaging:** 0.9 Kg, 5 Kg, 20 Kg (custom packaging on request).
- **Storage:** Store in original sealed containers, protected from frost and direct sun. Keep between 5–35 °C. Keep from freezing.
- **Shelf life:** 12 months unopened; older batches should be assessed.

Safety / Handling

- Non-flammable (water-based). Use gloves and eye protection. Avoid skin contact.
- If splashed to eyes: rinse thoroughly with water and seek medical attention.
- For full details provide SDS (Safety Data Sheet) to customers.
- Dispose according to local regulations.

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