GSM Construction Chemicals

ETHIO SBR EXTRA BONDING

Technical Datasheet

Product Description

ETHIO SBR Extra is a premium styrene-butadiene (SBR) co-polymer latex bonding agent, engineered to enhance the performance of Portland cement systems across a wide range of building and construction applications. Its formulation is tailored to improve strength, flexibility, and adhesion, making it ideal for environments requiring superior mechanical properties, water impermeability, and chemical resistance.



Recommended Uses

- As a bonding agent for new to old concrete, plaster, and for repairing concrete surfaces.
- In mortar and concrete mixes requiring enhanced strength, flexibility, and water resistance.
- For waterproofing applications in basements, bathrooms, and water tanks.
- As an additive in screeds, renders, and toppings to improve durability and performance.

Features and Benefits

- Enhanced Mechanical Properties: Provides significant improvements in strength and flexibility of cementitious mixes.
- Improved Bond Strength: Increases adhesion to a variety of substrates, ensuring durable bonding in critical applications.
- Water Resistance: Enhances the water impermeability of mortar and concrete, protecting against moisture ingress.
- Chemical Resistance: Offers increased resistance to a broad spectrum of chemicals, extending the life of treated surfaces.
- Reduced Shrinkage Cracking: Minimizes the risk of shrinkage cracking, ensuring a more stable and durable finish.
- Increased Abrasion Resistance: Enhances the surface's resistance to wear and tear, ideal for high-traffic areas.
- Eco-Friendly: Non-toxic formulation suitable for use with potable water applications.

Application Instructions

1. Surface Preparation: Ensure surfaces are clean, sound, and free from any contaminants. Dampen the surface before application for best results.
2. Mixing: Mix ETHIO SBR Extra with cement and sand to create a modified mortar. The typical mixing ratio is dependent on the application but generally includes 1 part ETHIO SBR Extra to 1 part water as the liquid component of the mix.
3. Application: Apply the SBR modified mix using a trowel, brush, or as required for the specific application. For bonding applications, apply a coat of the SBR mix to the prepared surface before placing fresh concrete or mortar.
4. Curing: Allow the applied material to cure properly. Curing times may vary based on temperature and humidity.

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Storage and Handling

- Store in a cool, dry place, away from direct sunlight and freezing temperatures.
- Keep containers sealed when not in use to prevent contamination.

Safety Precautions

- Wear appropriate personal protective equipment (PPE) including gloves and eye protection during handling and application.
- Ensure adequate ventilation when applying indoors.

Technical Support

For further assistance with ETHIO SBR Extra, including detailed application advice or technical queries, please contact GAST Solar Mechanics PLC technical support. Our team is dedicated to providing the support needed to achieve optimal results with our products in your specific application scenarios.

This technical data sheet for ETHIO SBR Extra Bonding Agent offers comprehensive insights into its capabilities, applications, and safe usage guidelines, designed to assist professionals in enhancing the performance of cementitious materials in a variety of construction and repair scenarios.