HITi
Construction Revolution

HITI LATEX

Technical Data Sheet



Contact:
Phone : +9647500700015
info@hiti-krd.com
www.hiti-krd.com



DESCRIPTION

HITI LATEX is a high-performance, advanced water dispersion of specialized styrene-butadiene rubber (S.B.R.), designed for superior versatility in cement and aggregate mixtures. When integrated into these mixtures, it significantly enhances adhesion, mechanical properties, plasticity, thixotropy, water retention, and overall workability, making it an essential component for achieving optimal performance in various construction applications.

USES

HITI LATEX serves as an effective bonding agent, primer and admixture for a variety of cement-based applications, including:

- Creating a cementitious bonding slurry to enhance adhesion in any cement-based mixture.
- Primer on concrete and absorbent surfaces (100 g/m²) — e.g. before HITI REPAIR SM and HITI POOLFLEX 1062.
- Formulating high-strength cement renders for both interior and exterior surfaces.
- Developing cement mortar for repairing damaged areas, filling voids, and finishing building and concrete surfaces.
- Producing a durable finishing cement mortar for surfaces subjected to heavy abrasion.
- Preparing a high-adhesion cement slurry for bonding new screeds to existing screeds and concrete.
- Modifying HITI ULTRAGROUT 2500 for swimming pools, heavy traffic and water-exposed areas: 0.5 L per 5 kg of grout, replacing the same amount of water.

ADVANTAGES

- **User-Friendly:** Simple and efficient application process.
- **Enhanced Adhesion:** Significantly improves bond strength to various substrates.
- **Improved Structural Strength:** Elevates both compressive and flexural strengths.
- **Superior Abrasion Resistance:** Offers increased durability against wear and tear.
- **Greater Impermeability:** Reduces water permeability for enhanced protection.
- **Durability in Extreme Conditions:** Extends longevity during freeze/thaw cycles.
- **Chemical Resistance:** Provides better resistance to dilute acids and oils.

APPLICATION PROCEDURE

Surface Preparation

Before applying any mix containing **HITI LATEX**, ensure that the substrate is clean, sound, and free of any loose particles. Remove all laitance, oil, grease, mold oil, and curing compounds from the surface. For exposed reinforcing steel, ensure it is clean and free from scale and rust. When repairing damaged concrete, cut back the concrete to thoroughly sound material. The substrate should then be thoroughly wetted, but ensure no excess water is left on the surface, as it may affect adhesion.

1. Bonding Slurry

Used for creating bonding slurries to enhance adhesion before applying screeds and plasters on cementitious surfaces.

Material	Quantity
HITI LATEX	1.25 kg
Water	0.75 kg
Cement	4 kg

2. Preparation of Render

Improves the thixotropy, water impermeability, and adhesion of cementitious-based render and plaster. Suitable for traditional and modern rendering methods.

Material	Quantity
HITI LATEX	5 kg
Water	15 kg
Cement	22 kg
Silica Sand (0–2 mm)	80 kg

3. Scratch-Coat Layers (For Renders)

Used as a primer layer to improve adhesion and absorption of the render mortar onto the substrate. Ideal for surfaces requiring enhanced bonding.

Material	Quantity
HITI LATEX	4.5 kg
Water	3.5 kg
Cement	14 kg
Silica Sand (0–2 mm)	14 kg

4. Filling Cavities & Cracks

Serves as an admixture in filler mortar to enhance thixotropy, making it easier to apply to walls and ceilings, and to improve adhesion.

Material	Quantity
HITI LATEX	5 kg
Water	9 kg
Cement	32 kg

Silica Sand (0–2 mm)	80 kg

5. Primer

Apply **HITI LATEX** as a primer at 100 g/m² on concrete and very absorbent surfaces before the next layer.

MIXING

Mix **HITI LATEX** with the specified amount of water to produce a gauging solution. Pour a portion of this gauging solution into a suitable mixing container. While stirring slowly, add the cement-sand mix to the gauging solution and continue mixing thoroughly until a smooth, uniform, and lump-free consistency is achieved. Within the mixing time, add additional gauging solution as needed to adjust to the desired consistency.

Application

Use a stiff, clean brush to work the bonding bridge mix vigorously onto the substrate, creating a thin layer that fills all unevenness, pits, and pores. Apply between +5 °C and +35 °C.

Layering

Apply the subsequent layer of mortar "wet on wet" directly onto the bonding bridge for optimal adhesion and seamless integration.

Property	Details
Type	SBR (styrene-butadiene) bonding agent and admixture
Packaging	(5 kg, 10 kg, 20 kg) drums
pH	8 – 9
Appearance	White liquid
Density	1.01 g/cm³ at +25 °C
Minimum film forming temperature (MFFT)	0 °C
Glass transition temperature (Tg)	–8 °C
Application temperature	+5 °C to +35 °C
Primer consumption	100 g/m²
Grout modification	0.5 L per 5 kg HITI ULTRAGROUT 2500, replacing the same amount of water
Resistance to Damp	Excellent
Resistance to Ageing	Excellent
Resistance to Solvents and Oils	Fair
Resistance to Acids and Alkalis	Fair
Shelf Life	Up to 12 months from production date when stored as per recommendations
Storage	Product must be stored in original unopened packaging, under cover, out of direct sunlight, and protected from extreme temperatures. In tropical climates, store in an air-conditioned environment.