

Bond Coat Latex

ST-BCL

Polymer emulsion for bond strength enhancement at substrate surface before receiving repair mortar or other topping materials requiring ultra strong bonding to substrate.



PRODUCT DESCRIPTION

ST-BCL is a high performance latex admixture formulated to mix with Ordinary Portland Cement (OPC) to form bond coat slurry used for enhancing bond strength between old or new concrete/mortar substrate with repair mortar or other topping materials. The alkalinity of the bond coat slurry so formed is able to protect the embedded steel reinforcement from further deterioration by rusting. ST-BCL can also be used as ordinary primer latex for spatterdash, render, plaster, etc.

SUBSTRATE PREPARATION

The substrate must be sound, even, clean and free of loose particles, grease and any other unwanted contaminants. No stagnant or apparent water is allowed on the substrate surface before application.

FEATURES & BENEFITS

- ◆ Enhanced bond strength on old or new concrete/mortar substrates
- ◆ Protect embedded reinforcement from further deterioration
- ◆ Chloride free

AREAS OF APPLICATION

- ◆ Mix with Ordinary Portland Cement to serve as bond coat slurry
- ◆ Mix with Ordinary Portland Cement to apply on reinforcement for rust prevention
- ◆ Work alone as ultra strong primer coat for rendering, plastering, tiling, etc.
- ◆ Curing compound for concrete/mortar

MIXING & INSTALLATION

- Bond Coat Slurry:**
Mix ST-BCL with cement according to the recommended ratio below to form bond coat slurry for receiving repair mortar. Apply bond coat slurry to the substrate by brush or roller to ensure the entire area is fully covered. Apply repair mortar when the bond coat slurry becomes tacky dry.
- Spatterdash:**
Mix cement, sand, ST-BCL and water according to the recommended ratio below with electric mixer for 2 – 5 minutes. Spread spatterdash to the substrate surface in a usual way with a spatterdash spreader or other suitable tools.
- Mortar for Minor Repair:**
Mix cement, sand, ST-BCL and water according to the recommended ratio below with electric mixer for 2 – 5 minutes. Apply the mortar/screed to the repair area by hand or by trowel.

PACKAGE

20 kg pail or 200 kg drum

SHELF LIFE

ST-BCL has a shelf life of 12 months if well kept unopened in dry condition on lifted floor.

HEALTH & SAFETY

Wear NIOSH approved face mask or equivalent personal protective equipment when handling the material. ST-BCL may cause an allergic effect or irritation to eyes and skin. When contact with eyes, flush immediately with large quantity of water.

REFERENCE STANDARDS

- ◆ British Standard: BS 6319
- ◆ Hong Kong Standard: HKHA MTS Spec. Part D
- ◆ American Standard: USEPA Method 24

MIXING RATIO FOR DIFFERENT APPLICATION PURPOSES

Usage		Mixing Ratio of Ingredients			
		ST-BCL	Water	Cement	Sand
Primer Coat Slurry/Steel Protection Slurry	By volume	1	--	1	--
	By weight	1 kg	--	1.5 kg	--
Spatterdash with Ultra Adhesion	By volume	1	2●	4	8
	By weight	10 kg	20 kg●	50 kg	100 kg
Mortar for Minor Repair	By volume	1	1●	4	10 - 12
	By weight	10 kg	10 kg●	50 kg	125 - 150 kg

●The quantity of ST-BCL and water listed above are for reference only. The actual quantity of liquid part may vary due to the quality and moisture condition of sand, type of cement used as well as environmental factors.

PRODUCT INFORMATION

ρ Color	Milky White
ρ pH value	~ 7 - 8
ρ Specific Gravity	~ 1 kg / liter
ρ Minimum Application Temperature	~ 5 °C
ρ Volatile Organic Compound Content	Low
ρ Coverage	~ 3 - 6 m ² /kg (Bond coat Slurry) ~ 6 - 17 m ² /kg (Spatterdash)

PRODUCT PERFORMANCE

		Bond coat slurry	Spatterdash (extra strength)
ρ Adhesion to Concrete	HKHA MTS Spec. Pt.D, Cl.2.1.15	≥ 2 N/mm ²	≥ 2 N/mm ²
ρ Compressive Strength	HKHA MTS Spec. Pt.D, Cl.2.1.1 & BS 6319-2	--	≥ 30 N/mm ²
ρ Flexural Strength	HKHA MTS Spec. Pt.D, Cl.2.1.2 & BS 6319-3	--	≥ 6 N/mm ²

* Note: The test standards for the product performance stated above refer to laboratory test only.

DISCLAIMER

Note: As the application condition may vary from site to site and may not be identical to the same condition under which the parameters in the brochure are drawn, the information provided on this Technical Data Sheet is for general guidance only. Warranty will not be given to the ultimate performance and application results of this material when the material is not kept, mixed, applied or cured strictly in accordance with the requirements and/or instructions listed out in this brochure or in other supplementary document.

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