

CEMBOND LATEX PLUS

SBR LATEX BASED CEMENT MODIFIER FOR WATERPROOF SLURRY, BONDING SLURRY & RENDER/SCREED

Description

CEMBOND LATEX PLUS is a milky-white, Styrene-Butadiene Rubber latex liquid, which consists of microscopic particles of synthetic rubber dispersed in an aqueous solution.

CEMBOND LATEX PLUS is a specifically designed for use with different cement compositions. It is used in mortar and concretes as a polymer modifier to increase resistance to water penetration, improve abrasion resistance and durability. It is used with cement as a reliable water-resistant bonding agent.

Usage

The scope of application are as follows:

- Concrete repair: Spalled concrete, repairing floors, beams and pre-cast slabs.
- External rendering: Waterproof, weatherproof and frost resistant render.
- Makes waterproof coating for basements, lift pits, inspection pits, water towers, liquid tanks, effluent tanks and swimming pools.
- Long life and watertight masonry joints
- Used in bonding mortar of tiles, fixing or re-fixing slip bricks.
- Bonding between successive concrete casts by incorporating CEMBOND LATEX PLUS into bonding mortar.
- Injection into cracks or porous concrete works.

Features

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Characteristic

Appearance : Milky white Styrene-Butadiene Rubber latex liquid

pH : 8 ± 1

Specific gravity : 1.02 ± 0.02

Solid content : 38 ± 5%

Properties of Polymer modified mortar

Mortar proportioning:

Cement : 50 Kg

Silica Sand (Zone II) : 150 Kg

CEMBOND LATEX PLUS : 10 Kg

Water : 10 Liter

Mortar Properties:

Fresh wet density : 2100 ~ 2200 Kg/m³

Compressive strength* : 30 N/mm², Max.

Flexural strength* : 12 N/mm², Max.

Tensile strength* : 6 N/mm², Max.

Freeze thaw resistance : Excellent.

Adhesion : Excellent to concrete, steel, brick, glass, etc.

Resistance to water under pressure (30m head) : Excellent - no water through a 15mm

thick test piece.

*Properties are of typical mix, and may vary depending upon mix constituents. FCSC strongly advises to carry out site mix design and site trials

Application Information

Application Area	Mixing Ratio	Consumption
Waterproofing	CEMBOND LATEX +: Water : Cement 1:4:7	0.075 kg/m ² per coat
Bonding Agent	CEMBOND LATEX +: Water : Cement 1:4:6	0.05 kg/m ² per coat.
Repair Mortar	CEMBOND LATEX +: Water : Cement : Sand 1: 4:10:40	0.035 kg/sqm/mm thickness at Water: Powder ratio of 0.5
Crack Fill	CEMBOND LATEX +: Water 1:4	0.015 kg/sqm/mm thickness at Water: Powder ratio of 0.5
Repair Concrete & Screed	CEMBOND LATEX +: Water 1:4	10-15% by weight of Cement at Water : Powder ratio of 0.5
Injection Grout	CEMBOND LATEX +: Water 1:6	3-6 kg per bag of cement

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Directions for use

Surface preparation

All application surfaces should be clean, sound and free of deleterious substances. Remove all laitance, oil, grease, mould oil or curing compound from concrete surfaces using wire brush, scabber or other equipment as appropriate. Ensure that reinforcing steel is clean and free from grease or oil; remove scale and rust. When repairing spalled or damaged concrete, ensure that the concrete has been cut back to sound material.

Mixing of mortar

Always use fresh, cool cement and sharp, clean, well graded aggregate, free of excessive fines. Mixing should preferably be carried out in an efficient concrete mixer - where available a pan type mixer, such as a Crete angle, is recommended. Hand mixing is only permissible when the total weight of the mix is less than 25kg. Charge the mixer with the required quantity of silica sand and cement and premix for approx. 1 minute. Add the CEMBOND LATEX PLUS and mix for 2 minutes only, to avoid excessive air entrapment. Finally, without delay, add the water slowly until the required consistency is achieved. Owing to the strong plasticising properties of CEMBOND LATEX PLUS, rapid thinning can occur - avoid adding excessive water. Until the user becomes familiar with its workability the appearance of a CEMBOND LATEX PLUS modified mix is deceptive; when of correct consistency it may appear to be too dry. However, it will be found that it can be compacted and troweled satisfactorily. Avoid using excessive water.

Rendering to vertical surfaces: Apply the Slurry Primer to the prepared surface and then apply the CEMBOND LATEX PLUS render into the wet Slurry Primer. Apply CEMBOND LATEX PLUS modified mortars in coats at a maximum thickness of 6mm per coat. Greater thickness can lead to slumping. Several coats can be applied in fairly rapid succession, usually within 15 to 30 minutes of the previous coat. Close the surface using a wooden float or steel trowel.

Another method is to let the first coat of render dry overnight and apply another slurry coat before applying the second coat of render.

Screeds and toppings, applied to horizontal surfaces: Screeds, patches, etc., modified with CEMBOND LATEX PLUS, can be laid to any thickness from 60mm down to 6 mm minimum.

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After mixing, the CEMBOND LATEX PLUS modified mix should be placed over the still wet Slurry Primer, well compacted and struck off to level. It may then be trowelled to the required finish using a wooden float or steel trowel.

As waterproofing & tanking: Wet down surfaces, ensuring that they are saturated but free of surface water. Prepare a waterproof slurry of 3-to-3.5 parts cement with 1 to-1.5 part fine silica sand to 1 part CEMBOND LATEX PLUS with 1 part water by volume, mixed to a lump-free creamy, creamy consistency. Using a stiff brush, work the slurry well into the damp surface, ensuring that no pinholes are visible. Apply the second coat at a right angle to the first, and after the first coat has turned totally dry. (Approximately 10 kg of CEMBOND LATEX PLUS mixed with 10 kg of water, 50 kg of cement & 25 Kg of fine silica sand, will give a slurry which will cover 70-90 m² of substrate/coat, dependent on surface texture and thickness applied.)

Packaging

CEMBOND LATEX PLUS is supplied in 1/2kg, 1kg, 5kg, 10kg, 20kg & 230 kg.

Storage and Shelf life

Store under cover, out of direct sunlight, and protect from extremes of temperature. In tropical climates, the product must be stored in an air-conditioned environment. Shelf life is 24 months when stored as above. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice, please consult FCSC's Technical Services Department.

Safety and Precautions

CEMBOND LATEX PLUS does not fall into the hazard classifications. However, it should not be swallowed or allowed to come into contact with the skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with the eyes, it shall be rinsed immediately with plenty of water and medical advice sought immediately. If swallowed, medical attention shall be sought immediately. Vomiting should not be induced.

Tools and equipment, after use to be cleaned with thinner or a suitable solvent. Cleaning should be done before the material starts to gel or harden.

Note:

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