

MITCHBOND LATEX

Bonding Agent for Cementitious Systems



DESCRIPTION

MITCHBOND LATEX is **styrene butadiene rubber** copolymer latex which has been specifically designed for use with cement compositions. It can be used to form water and vapor resistant bonding coats, prior to application of renders, plasters or screeds. **MITCHBOND LATEX** aids in better mechanical properties by ensuring a sound contact area between old and new concrete.

ADVANTAGES

- Excellent Bond Strength.
- Improved Tensile, Flexural And Compressive Strength.
- Resistant To Water Penetration.
- Highly Recommended For Repairs And Rehabilitation Of Structures.
- Easy To Use,

FUNCTION

MITCHBOND LATEX when incorporated into cement mortar mixes, forms polymer modified system with interpenetrating polymer films which exhibits excellent adhesion, improved tensile, flexural and compressive strengths, excellent resistance to water, water vapor and improved chemical resistance.

USES

MITCHBOND LATEX can be used for repairing concrete elements like beams, columns and slabs.

MITCHBOND LATEX is an excellent material for bedding tiles, fixing slip bricks, waterproofing above and below grade, abrasion resistant flooring and lining effluent tanks and tubes.

MITCHBOND LATEX provides excellent adhesion between old and new concrete and hence ensures a monolithic system after repair.

SURFACE PREPARATION

Remove all laitance, oil, grease, mold oil, curing compound etc. by using a wire brush. On larger floor areas, a scrubbing machine can also be used. Ensure that reinforcing steel is clean and free from grease or oil, remove scale and rust. When repairing spalled or damaged concrete, ensure exposed sound surface.

BONDING SLURRY

Ensure that absorbent surfaces such as concrete, brick, stone etc., are saturated surface dry. Prepare bonding slurry consisting of 2 parts cement to 1 part

MITCHBOND LATEX, mixed to a lump free consistency.

Using a stiff brush work the bonding slurry well into the damp surface ensuring that no pinholes are visible. Do not apply bonding slurry at thickness in excess of 2mm. If a second coat is necessary, it must be applied after allowing the first coat to "flash-off".

Preparation of MITCHBOND LATEX modified mix

It is important that the **MITCHBOND LATEX** modified mix is applied to the wet bonding slurry. If the bonding slurry dries, another coat must be applied. The proportions and quantities of sand, cement and **MITCHBOND LATEX** differ for particular applications.

WORKABILITY

The strong plasticizing action of **MITCHBOND LATEX** allows the water cement ratio to be reduced to a minimum consistency with workability required for application.

MIXING

Mixing should preferably be carried out in a concrete mixer although hand mixing is permissible where the total weight of the mix does not exceed 25kg.

Charge the mixer with the required quantity of sand and cement, and premix for approximately one minute. Pour the desired quantity of **MITCHBOND LATEX** and mix for 2 to 3 minutes. Finally, add the water little by little, until the required consistency is achieved. Owing to the strong plasticizing properties of **MITCHBOND LATEX** it is best to add the water cautiously as rapid thinning can occur.

CURING

It is preferable to cure **MITCHBOND LATEX** modified mortars as soon as they are laid to prevent rapid evaporation of water essential for hydration. This can be achieved by using polythene, damp Hessian, or a suitable concrete curing membrane.

COMPATIBILITY

MITCHBOND LATEX is compatible with all types of OPC, sulphate resisting and high alumina cements.

PROPERTIES

Supply form	:	White Liquid
Specific gravity	:	1.01 at 20°C
Toxicity	:	Nil

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SPECIFICATION COMPLIANCE

MITCHBOND LATEX meets ASTM C 1059-99, Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete, Type II.

SHELF LIFE

Indefinite in manufacturer's sealed containers. Avoid prolonged storage in excessive heat.

PACKAGING

Available in 5 kg, 30 kg & 200 kg container

APPLICATION

Vertical Surfaces (renders)

For renders, it is preferable to apply **MITCHBOND LATEX** modified mortars in coats to a maximum thickness of 6mm per coat, as greater thickness can lead to slumping. However, several coats can be applied in fairly rapid succession usually within 15 to 30 minutes. Thicker coatings can be applied provided suitable formwork is used. Close the surface using a wooden float or steel trowel.

Horizontal Surfaces

Screeds, patches, etc., based on **MITCHBOND LATEX** modified cements can be laid to any thickness down to a feather edge. After mixing, the **MITCHBOND LATEX** modified mix should be poured over the still wet bonding slurry and struck off. It may then be trowelled to the required finish using a wooden float or steel trowel.

CLEANING OF TOOLS

Immediately after application is completed clean all tools and equipment with clean water. Hardened material can only be removed by mechanical means.

PRECAUTIONS

MITCHBOND LATEX should not be used when the temperature is below 5°C and falling. In these cold conditions the use of warm water (up to 30°C) is advisable to accelerate strength development. Normal precautions for winter working with cementitious materials should then be adopted.

At ambient temperatures above 35°C, the material should be stored in the shade and cool water used for mixing.

MITCHBOND LATEX modified mixes can be applied to damp but not wet surfaces.

Do not proceed with application when rainfall is imminent unless in a sheltered or protected location.

The product should not be exposed to moving water during application & curing period. When running water is present this must first be sealed and plugged using Rapid Hardener or in extreme cases by dewatering. This is recommended prior to tackling waterproofing projects.

Never apply **MITCHBOND LATEX** modified mixes or concrete to a bonding slurry that has been allowed to dry out.

Always use fresh, cool cement and sharp, clean, well graded aggregate, free of excessive fines.

Keep mixing time to a minimum - see recommendations.

Until the user becomes familiar with its workability the appearance of a **MITCHBOND LATEX** 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 trowelled satisfactorily. Avoid using excessive water.

Trowelling should proceed with the work. Do not over trowel and avoid retrowelling. Protect from too rapid drying out prior to trowelling.

HEALTH & SAFETY

Wear suitable protective clothing, gloves and eye protection.

Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water at least for 15 minutes and seek medical advice.

MITCHBOND LATEX is non-flammable.

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst Mitchell Construction Chemicals endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because Mitchell has no direct or continuous control over where and how Mitchell products are applied - accept any liability either directly or indirectly arising from the use of Mitchell products, whether or not in accordance with any advice, specification, recommendation, or information given by the company.