



CUSTOM MADE POLYMERS

GENERAL DESCRIPTION

Silicobond is a modified Polymer emulsion specifically designed for cement based applications.

ADVANTAGES

Excellent Bonding : The bonding strength between old Concrete & Fresh Mortar will be distinctively improved. Excellent Adhesion to concrete, masonry, brick, wood, metals etc.

Higher Strengths : Flexural & Impact Strength is increased compared to the unmodified mix Lower

Permeability : Water Absorption is reduced, therefore providing excellent water proofing capabilities

Better Resistance : Increases resistance to industrial chemicals, UV light and heat as well as improved abrasion resistance

Lower Shrinkage : The Modified Mortar is plasticised considerably, Mortars with low water. cement ratio can be achieved without affecting workability and therefore degree of shrinkage is reduced further.

Enhanced Curing : The Modified Mortar has better water retention capability and holds the mix water in mortar for enhanced curing.

Improves Surface Hardening : Limits Wear & Dust Production of Concrete

Safe to Use : Being water-based it is eco-friendly in nature & is easy to handle

USES

Bonding Coat: As a Bonding Coat between Old Concrete & New Mortar/Concrete.

Passivating Coat: Anti corrosive/Passivative treatment to reinforcement and concrete surface.

Concrete Repair & Adhesive Mortar by Polymer Modified Mortar: For repairing spalled Concrete Floors, Beams, Columns, Slabs, Foundations.

Wear Resistant Mortars for Floors: Abrasion resistant, crack resistant polymer mortars on industrial floors, ducts etc.

Repairing Floors & Stairs: As a patch-up Polymer Mortar for filling up voids, loose pockets, spalled edges, etc.

Crack Sealing: Can be used as a Crack Filling Compound by mixing with cement and Cement Injection mixing for grouting purposes.

Renderings & Coatings: Cement based renderings especially in tanks, water treatment plants, etc. for improving the water impermeability Also for renderings on foundations.

APPLICATION GUIDELINES:

Surface preparation: The concrete surfaces and the reinforcing steel should be clean, free from dust, dirt, loose particles, grease oil etc. When repairing, the base concrete must be sound and firm.

Preparation of bonding coat: The prepared bases, such as concrete, bricks, stones etc should coat consisting of one part SILICOBOND to two part Portland cement, mixed homogenously.

Preparation of Polymer Modified Mortar: To prepare SILICOBOND modified cement mortar, premix thoroughly solid components viz, Portland cement, sand in required proportion pour SILICOBOND at a ratio of 20% of cement weight with required quantity of water to mixture, and mix thoroughly for about 3 to 4 minutes. Finally add the water little by little, until the required consistency is achieved.

DOSAGE

For Modified Mortars/ Concrete	: 20% by weight of cement quantity
For floor screed	: 10% by weight of cement quantity
For cement paints	: 4 to 5 ltrs per bag of cement paints
For lime/white wash	: 2 ltrs per bag of lime/white wash.

SHELF LIFE

1 Year if stored in a sealed container

PACKING

50 ltrs & 20 ltrs

NOTE

*Depending on the porosity and the type of substrate



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