



ADHERE BONDS
The Versatile Construction Chemicals

ADHERE BONDS - LATEX Cementitious Polymer Additives

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Water-resistant additive and bonding agent for cementitious systems based on styrene butadiene rubber latex.

ADHERE BONDS - LATEX is styrene butadiene rubber latex, which has been specifically designed for use with cement compositions. It can be used to form water and vapour resistant bonding coats, prior to application of renders, plasters or screeds. ADHERE BONDS - 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:

ADHERE BONDS - 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 vapour and improved chemical resistance.

USES:

ADHERE BONDS - LATEX can be used for repairing concrete elements like beams, columns and slabs.

ADHERE BONDS - 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.

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

METHOD OF APPLICATION:

When adhere bonds - latex modified mixes are used, it is essential that the following procedures are closely followed.

Surface Preparation:

Remove all laitance, oil, grease, mould oil, curing compound, etc using a wire brush or for large floor areas, a scrubbing machine. 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 sound surface is exposed.

Bonding slurry:

Ensure that absorbent surfaces such as concrete, brick, stone etc., are saturated surface dry. Prepare bonding slurry consisting of Mix Ratio. ADHERE BONDS - LATEX Water & cement

1:1:5, mixed to a lump free consistency. Using a stiff brush, apply the bonding slurry well onto 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 adhere bonds - latex modified mix: It is important that the adhere bonds - latex modified mix is applied to the saturated dry substrate. If the bonding slurry dries, another coat must be applied.

Note:

Whilst any information and / or specification contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendation or suggestions made by us, our representatives, agents or distributors as the conditions of use of any labour involved are beyond our control.

The proportions and quantities of sand, cement and adhere bonds - latex differ for particular applications (see mix design).

Workability:

The strong plasticizing action of adhere bonds - 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 25 kg.

Charge the mixer with the required quantity of sand and cement, and premix for approximately one minute. Pour the desired quantity of adhere bonds - 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 adhere bonds - latex, it is best to add the water cautiously as rapid thinning can occur.

CURING:

It is preferable to cure adhere bonds - 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.

SPECIFICATION COMPLIANCE:

ADHERE BONDS - LATEX meets ASTM C 1059-99, Standard specification for latex Agents for Bonding Fresh to Hardened concrete, Type II.

COMPATIBILITY:

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

PROPERTIES:

Supply form White Liquid
Specific gravity 1.040 ± 0.020
Toxicity Nil

Typical properties of a Adhere Bonds - latex modified cement and sand mix in the proportion of 3 parts sand to 1 part cement (adhere bonds - latex dosage 101 trs / bag of cement), are as follows.

Compressive Strength 32 N/mm²
Tensile Strength 4.5 N/mm²
Flexural Strength 10 N/mm²
Freeze resistance Excellent
Water vapour permeability Reduced by 96%
Adhesion Excellent to concrete, steel, brick, glass, etc
Coefficient of thermal expansion (at - 20 To +20°C 12.8 × 10⁻⁶)

Chemical resistance Resists mild acids alkalis sulphates, chlorides, urine, dung lactic acid sugar etc.

PACKAGING:

1kg, 5kg, 10kg, 50kg

SHELF LIFE:

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

Adhere Bonds
Coats Pvt Ltd

