

MIXTILE Latex

Water resistant latex admixture / bonding agent for cementitious adhesives, grouts and mortar

Mixtile Latex is a specially formulated latex additive, for use with cement mortars to form high strength mortars for the installation of all type of ceramic, mosaic, quarry and marble tiles. It is also suitable for producing modified tile grouts, renders, and primer coats. Mixtile latex is a synthetic rubber emulsion containing fungicides and hydrophilic additives. It is suitable to apply by brush to the surfaces to increase the adhesion strength before fixing the tiles.

Used as an additive with Mixtile adhesives, a degree of flexibility is imparted, improving the adhesives suitability for use where road traffic or machine vibration is indicated.

Appropriation

Mixtile Latex is used wherever increased performance is required from cement / sand mortars. This may be tiling in swimming pools, dairies, food processing areas, industrial units, where laying tiles or screeds on existing tiled surface etc.

Characteristics

Improves adhesion, chemical resistance & flexibility
Improves resistance to impact, thermal shock & water resistance
Non-toxic, suitable in contact with potable water
Suitable for on site production of adhesives and grouts
Economical alternative to propriety adhesives & grouts

Technical Data & Properties

Standards conform:

ANSI A 118.4; when used in conjunction with Mixtile mortars

BS: 5385 part 1 1976

Appearance: White liquid

Specific gravity: 1.01 at 25 °C

PH: 7

Tensile strength: 6.5N/mm²

Flexural strength: 13N/mm²

Shrinkage during cure: Approx. 0.01%

Freeze thaw resistance: Excellent

Pot life at 30°C: Approx. 1 hour for mortar

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

Product Management

Surface preparation: As with all bonding materials surface preparation is most important. Remove all laitance, oil, grease, mould oil, curing compound, using a wire brush, brush hammer, or for large floor areas use a scabbling machine. Damp down surface prior to application of Mixtile Latex modified mortars, ensuring surface is damp, but no free water is visible

Mixing: Mixing should be carried out in a forced action mixer. Charge the mixer with the correct quantity of sand and cement, and premix for one minute. Pour in the desired quantity of Mixtile Latex (premixed with water if necessary) and mix for 2 to 3 minutes. Do not over mix. Material will remain workable for at least 2 hours at 35 °C. Protect mixed material from wind and sun

Application: Apply to surface using notched trowel techniques. Working in areas of approximately 1mtr at a time to avoid skinning of the adhesives. Set dry tiles in bed of mortar, and slightly twist to ensure good adhesion. When tiles are aligned in final position lightly tap using a wooden float. Allow tiles to set for 24 hours before Grouting. Alternatively, when fixing using solid bed techniques, apply mortar to the required depth, and push the tiles into place. Ensure that the ribs on the back of the tiles are filled in. This will ensure 100% contact of adhesive.

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Tile fixing with Mixtile MTA (in accordance with ANSI A118.4)

Mixtile MTA: 25kg

Mixtile Late: 5ltr

Yield approximately: 15ltr / mix

Note: It may be necessary to add water to achieve desired workable consistency

Grouting with Mixgrout MG (swimming pools, wide joint grouts, abattoirs etc)

Mixgrout MG: 10kg

Mixtile Latex: 3ltr

Note: It may be necessary to add water to achieve desired workable consistency

Tile fixing mix designs

Thin bed fixing - Mix: 50 kilos cement (OPC)/ 50 kilos sand/ 10ltrs of Mixtile Latex

It may be necessary to add water to achieve desired consistency. This should be maximum 5ltr per 20 liters of Mixtile Latex. Yield approximately 50ltr of mortar. Materials should be mixed until a thick even paste is achieved.

Thick bed fixing - Mix: 50kgs OPC /100 to 150 kgs sand/ 12litres Mixtile Latex Water may be added to achieve consistency; up to a maximum of 5ltr per mix. Yield approximately 100 liters of mortar. Tile fixing in accordance with ANSI A118.4 1973; specification state that latex additives for use in thin set Portland cement tile fixing must be emulsions, which are added to Portland cement mortar in place of water or replacing part of the water. The dry components - Portland cement, dry additives, graded sand etc. must be pre-blended and must be specified by latex manufacturer for use with the particular latex additive

Packing & Storage

Mixtile Latex is available in 20ltr & 200 litre drums. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers/ storage tanks. Mixtile Latex should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

Health & Safety

Mixtile Latex contains no hazardous substances. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each Fab product

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Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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