

MC-Latex

Polymer and Mortar Additive

Product Properties

MC-Latex is a Styrene Butadienne polymer dispersion as additive to cement mortars to enhance its properties. It provides the following benefits:

- Improves adhesion of mortars
- Increases elasticity of mortars
- Reduces shrinkage and stress cracks
- Improves workability
- Reduces the permeability of cementitious materials

Areas of Application

Additive for:

- Bonding agents
- Cement floor screeds
- Cement renders
- Tile adhesives
- Masonry mortars

Application

SUBSTRATE

Requirements

The substrate must be clean, sound and free of loose material such as cement laitance, oil, grease, dust, etc.

Preparation

All loose particles must be removed. Absorbent substrates must be saturated thoroughly with clean water, though ponding water must be avoided.

BONDING AGENT ADDITIVE

Mixing

Add MC-Latex directly to fresh cement and sand and mix until a creamy consistence is achieved. Any dilution with water must be avoided.

Application

Apply the creamy slurry by brush onto the prepared substrate. The subsequently following cementitious overlayment must be applied while the bond coat is still wet. Do not apply under direct sunlight. Strong wind must be avoided.

Recommended mixing ratio:

| | | |
|-------------------------------|------|----------|
| Blend | OPC | 1 p.b.w. |
| | Sand | 2 p.b.w. |
| Mix until desired consistency | | |
| MC-Latex | | |

MORTAR ADDITIVE

Mixing

Add MC-Latex with the ratio of 1:1 to clean water and mix with OPC and sand until an optimal workability for the particular area of use is achieved.

Recommended mixing ratio:

| MC-Latex | Water | OPC | Sand |
|-----------|-----------|-------|--------|
| 5 - 7 lit | 5 - 7 lit | 50 kg | 150 kg |

Application

The mortar is applied evenly onto the prepared substrate. Avoid direct sunlight and strong wind. Make sure the applied mortar is cured properly, e.g. cover with wet burlaps.

ADDITIVE FOR TILE ADHESIVE

Mixing

Add MC-Latex to cementitious tile adhesive until an optimal workability for the particular area of use is achieved. The recommended ratio is approx. 7 - 8 litres of MC-Latex for 25 kg tile adhesive. Any dilution with water must be avoided.

Application

The adhesive is applied evenly onto the prepared substrate. Avoid direct sunlight and strong wind.

Technical Data for MC-Latex

| Characteristic | Unit | Value | Comments |
|---|-------------------------|-----------|--|
| Density | kg/lit | ~ 1.1 | |
| Coverage (Depending on Mixing Ratio) | kg/m ² | ~ 0.2 | as bonding agent |
| | lit/ m ² /mm | ~ 0.3 | as mortar additive |
| | lit/kg | ~ 0.3 | as tile adhesive additive |
| Increase in Flexural Strength | % | + 40 | compared to mortar without MC-Latex |
| Reduction in Water Absorption | % | - 13 | after 24 hours compared to mortar without MC-Latex |
| Application Condition | °C | > 8; < 30 | air-, substrate and material temperature |
| | % | max. 80 | relative humidity |

Product Characteristics for MC-Latex

| | |
|-----------------------|---|
| Consistency | Liquid |
| Colour | Milky white |
| Delivery | 20 lit container |
| Cleaning of Equipment | Use water while material is still wet. When material is dry use mechanical methods. |
| Storage | Can be stored in shaded, cool and dry conditions for 9 months in original unopened packs. |
| Disposal | In the interest of the environment, please empty all packs completely & in accordance with local regulations. |

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 11/09. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.