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# MC-Latex HP

## Polymer bonding agent and mortar strengthening additive

### Product Properties

MC-Latex HP is a highly concentrated Styrene Butadiene polymer dispersion as additive to cement mortars to enhance the adhesion and reduce the water absorbency. It provides the following benefits:

- Improves adhesion of mortars
- Increases elasticity of mortars
- Reduces shrinkage and stress cracks
- Improves workability
- Increases mechanical resistance
- Reduces the permeability of cementitious materials
- Reduces the effect of efflorescence
- Compatible with all alkaline cementitious materials

### Areas of Application

Additive for:

- Patching mortars
- 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 HP to clean water in the ratio of approx. 1 : 2. Add fresh cement and mix until a creamy consistence is achieved.

##### 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:

Polymer-water Solution	MC-Latex HP	1 p.b.w.
	Water	2 p.b.w.
Mix until desired consistency		
Blend	OPC	1 p.b.w.
	Sand	2 p.b.w.

#### ADDITIVE FOR HIGHER-GRADE MORTAR

##### (e.g. Render, Screed)

##### Mixing

Add MC-Latex HP with the ratio of 1 : 2 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 HP	Water	OPC	Sand
4 - 5 lit	8 - 10 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 HIGHER-GRADE TILE ADHESIVE

##### Mixing

Add MC-Latex HP with the ratio of 1 : 2 to clean water and mix with cementitious tile adhesive until an optimal workability for the particular area of use is achieved.

##### Application

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



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### Technical Data for MC-Latex HP

Characteristic	Unit	Value	Comments
Solid content	%	~ 38	
Density	kg/lit	~ 1.1	
Coverage (depending on mixing ratio)	kg/m <sup>2</sup>	~ 0.1	as bonding agent
	lit/ m <sup>2</sup> /mm	~ 0.3	as mortar additive
	lit/kg	~ 0.2	as tile adhesive additive
Increased flexural strength	%	+ 80	compared to mortar without MC-Latex HP
Reduction in water absorption	%	- 68	after 24 hours compared to mortar without MC-Latex HP
Application condition	°C	> 8; < 30	Air, substrate and material temperature
	%	max. 80	relative humidity

### Product Characteristics for MC-Latex HP

Consistency	liquid
Colour	milky white
Delivery	20 litres container
Cleaning of equipment	Use water while material is still wet. When material is dry use mechanical methods.
Storage	Shelf-life is 9 months if kept unopened in cool and dry place
Disposal	Containers must be emptied completely.

### 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 12/18.** 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.