



# AQUAFIN®-LATEX-M

**Art. No. 2 02301**

## **Bonding emulsion – additive for concrete, mortar and render – protective layer for fresh concrete**

AQUAFIN-LATEX-M is a highly concentrated bonding emulsion, free from acetate and plasticizers. It is used for producing polymer modified mortars and screeds. The addition of AQUAFIN-LATEX-M improves the workability and increases the physical properties of mortars and screeds.

Through the addition of AQUAFIN-LATEX-M the following properties are achieved:

- improves the chemical resistance of cement-based mortars
- prevents early drying of green concrete
- improves the adhesion, flexibility and crack-free properties of render mortars
- reduces the permeability to water
- increases the resistance to de-icing salts

### **Areas of application:**

AQUAFIN-LATEX-M can be used:

- as an additive for producing levelling and patching mortars
- as a bonding aid for splatterdash coats
- as a bonding aid for mortars, renders, lime-based and cement-based coatings
- for pointing masonry work

### **Technical Data:**

Basis:	polymeric emulsion based on butadiene-styrene
Spec. gravity:	1.01 kg/l
Colour:	white
pH value:	7-9
Consumption:	dependent on area of application
Packaging:	1, 10, 25, 180, 1000 kg containers
Storage:	frost free, minimum 24 months when stored in the original unopened container. Use opened containers promptly.

### **Substrate preparation:**

The area to be treated must be:

- dust free, dry, sound, load-bearing and have a good key
- free from separating and adhesion impeding substances e.g. dust, laitance, grease and similar.

Dependent on the condition of the substrate, use suitable preparative measures e.g. planing, scabbling, sand-blasting, shot-blasting.

All substrates must be evenly pre-wetted until the surface is completely saturated (avoid ponding, absorbent substrates require multiple pre-wetting).

### **Product preparation:**

Do not use at temperatures below +5°C. Only use fresh binder and clean washed aggregate with a good grading for producing the polymer-mortar.

Firstly mix dry, then add the AQUAFIN-LATEX-M-water solution and thoroughly mix for up to 2 minutes. As a rule, use wet in wet. With greater thickness, apply in many layers, building up to the desired thickness in stages.

### **Bonding slurry:**

Observe the following when applying render to difficult substrates, applying waterproof renders, waterproofing slurries, areas for patching, levelling mortars, floor coverings, between old and new concrete etc.:

Gauging solution (AQUAFIN-LATEX-M:water)

- 1:1.5 to 1:4 mixing ratio

- a) Splatterdash-bonding coat: Prepare the mortar and apply a splatterdash of the same material at a thickness of 4-5 mm. Add further layers of render in accordance with the working guidelines of the manufacturer.
- b) Other bonding slurries: Mix to a slurry consistency. Thoroughly brush the prepared bonding agent into the substrate. Additional mortar or concrete applications should be carefully spread 'wet in wet'.

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**Advice:** Never use the neat AQUAFIN-LATEX-M water solution as a bonding agent as a separating film can form where drying is rapid.

## Levelling and patching mortar:

Gauging solution (AQUAFIN-LATEX-M : water)

- 1:3 for thickness below 10 mm
- 1:5 for thicknesses above 10 mm
- 2:1 for greater chemical resistance (e.g. against urea, ammonia and diluted alkalis).

Apply the stiff-plastic mortar to the well pre-wetted substrate. With parts subjected to heavy duty use as well as with very smooth substrates, a bonding agent is necessary (see above).

## Floor coverings, abrasion resistant coverings in hydraulic engineering structures, screeds:

Gauging solution (AQUAFIN-LATEX-M : water)

- 1:1.5 to 1:2.5 for heavy duty applications
- 1:2 to 1:4 for normal duty use

In accordance with usual application guidelines, the wet earth consistency mortar is placed 'wet in wet' at thicknesses from 15-30 mm, well compacted and rubbed off. Follow the positioning of shrinkage control joints and movement joints!

## Renderers:

- Ordinary lime-cement render: gauging solution (AQUAFIN-LATEX-M : water)
  - 1:2.5 to 1:5.5
- Rendering over insulation boards: gauging solution (AQUAFIN-LATEX-M : water)
  - 1:2.5

AQUAFIN-LATEX-M is added to the backing coat render where improved adhesion, increased flexibility, reduced presence of shrinkage cracks and reduced water permeability is requested.

**Flattening and evening fair-faced concrete:** Gauging solution (AQUAFIN-LATEX-M : water)

- 1:4 to 1:7

Firstly prepare the bonding agent and intensively rub in with a brush or broom, then immediately spread the smoothing mortar 'wet in wet', prepared as above, using a trowel or rubber float, rub up with a wood float and smooth with a steel float.

## Mortar guide:

Gauging solution (AQUAFIN-LATEX-M : water)

- 1:4 to 1:7

For bridging construction joints between concrete sections, the above mixture is prepared to a stiff-plastic consistency and, immediately before pouring the concrete, is placed on the clean, well pre-wetted substrate at a thickness of 5 cm. When using shuttering, these must be well sealed. The construction joint thus produced is carefully covered with concrete and compacted as usual.

## Adhesive, grouting and covered fillet mortar:

- For rigid joints in concrete and masonry work  
Gauging solution (AQUAFIN-LATEX-M : water)
  - 1:2.5 to 1:5

Prepare the mortar to a paste-like consistency and press into the joint with a trowel, bricklayers trowel or pointing trowel.

- Bonding insulation and lightweight building boards  
Gauging solution (AQUAFIN-LATEX-M : water)
  - 1:2.5

Apply dabs or a full surface application of the plastic mortar with a trowel or notched trowel and push in the board.

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## Addition to lime and cement coatings:

Gauging solution (AQUAFIN-LATEX-M : water)

- 1:1.5

Add the gauging solution to the lime and cement coating. This gives the coating increased adhesion and resistance to wiping as well as improved resistance to weathering.

## Post-treatment and protection:

Rendered areas, floor coverings, patching and levelling mortars etc. are to be kept damp for 5 days or covered with polythene to protect against drying out too early in wind and sunshine.

## Evaporation protection for green concrete:

Following dilution (1 part AQUAFIN-LATEX-M:2.5 parts water), the mortar is applied by spray equipment or brush. Application should be carried out as soon as the setting process has started but the surface is free from water.

## Advice:

- To prevent pinholes from forming, the AQUAFIN-LATEX-M mortar should be intensively mixed (not longer than 1 – 2 mins.)
- Neat AQUAFIN-LATEX-M (without the addition of sand and cement) is not suitable as a bonding agent, as a separating layer may form as a consequence of the premature formation of a film.
- AQUAFIN-LATEX-M gauging solutions, which are diluted greater than 1:7 (AQUAFIN-LATEX-M : water), furnish the mortar with too little polymer so that the properties of the mortar are hardly improved.
- Do not use AQUAFIN-LATEX-M mortars at temperatures below +5 °C.
- AQUAFIN-LATEX-M mortar is not resistant to permanent contact with petrol and organic solvents (use ASODUR mortars).
- When using AQUAFIN-LATEX-M, the technical regulations must be followed in exactly the same way as for the application of conventional mortars. Clean the substrate and thoroughly dampen.
- Use clean sand with a suitable grading curve (particle size distribution).
- When applying multiple layers, always work 'wet in wet'. Protect from rapid drying out.
- Protect from wind and extreme temperatures.

Please observe a current valid EU safety data sheet.

**GISCODE: D1**