



**FINOMIX®**  
DRY MORTARS

## Technical Data Sheet

Release 1: 26/07/2024



# eco•latex

## enhancing polymer resin for mortars

- It improves plasticity and workability of mortars
- It increases elasticity and water repellency
- It promotes adhesion to the substrate
- It increases mechanical strengths of mortars



# ECO•LATEX

## enhancing polymer resin for mortars

### DESCRIPTION

ECO•LATEX is a synthetic polymer emulsion designed to enhance multiple properties of cementitious mortars. Specifically, it significantly improves adhesion to the substrate, while also increasing elasticity, plasticity and chemical resistance. In addition, it reduces setting shrinkage, preventing the formation of cracks.

Its formulation, based on synthetic resins completely free from ammonia and APEO (alkylphenol ethoxylates), makes it environmentally friendly.

It features low Volatile Organic Compounds (VOC) content, in compliance with Directive 2004/42/EC.

### APPLICATIONS

ECO•LATEX is used as an admixture, replacing part of the mixing water required for cement mortars (traditional or ready-mixed), including masonry mortars, renders and floor screeds.

The addition of ECO•LATEX allows renders and screeds to be applied in thin layers without the occurrence of cracking.

It significantly improves the workability and elasticity of renders and building mortars, enabling their use in repair and refurbishment applications, while also increasing the adhesion of bonding materials to substrates such as metal, wood, etc.

In addition, it enhances moisture resistance and surface hardness.

### PROPERTIES / ADVANTAGES

By adding ECO•LATEX to mortars, the following benefits are achieved:

- Improved mechanical strength.
- Enhanced adhesion to difficult substrates.
- Reduced setting shrinkage and related cracking.
- Increased elasticity and resistance to frost and moisture.
- Improved watertightness.

- Increased abrasion resistance.
- Enhanced resistance to pollutants, solvents and acids.
- Improved workability and plasticity.
- Increased water repellency of mortars.

### HARMONIZED STANDARDS / REGULATIONS

- **Directive 2004/42/EC (Annex II, table A):** Maximum VOC content for product sub-category n, type Y: 30g/l (2010) for ready-to-use product. ECO•LATEX contains <30g/l of VOCs.
- **Regulation (EC) No 1907/2006 (REACH):** ECO•LATEX does not contain Alkylphenol Ethoxylates (APEO-free).

### APPLICATION INSTRUCTIONS

- The substrate must be clean and free from dust, grease, paints and loose residues. It should then be thoroughly pre-wetted to saturation. Any standing water must be removed.
- Shake the container well before use.
- ECO•LATEX fluidifies mortars, thereby reducing the total amount of water required for mixing. For this reason, do not use the full pre-calculated amount of water from the outset.
- Add the required quantity of ECO•LATEX to part of the mixing water and then gradually add the dry mortar under continuous mixing. The dosage depends on the specific application.
- Allow the mixture to blend thoroughly and adjust workability by gradually adding the remaining amount of water.
- The addition of ECO•LATEX may extend the drying time of mortars, depending on the dosage used.

### CLEANING OF EQUIPMENT

All tools and application equipment are cleaned with water while the mortars with added ECO•LATEX are still fresh. Hardened material can only be mechanically removed.

## RECOMMENDATIONS

- Temperature during application should be between +5°C and +35°C.
- **ECO•LATEX** should not be added directly to the dry mortar. It is recommended to first dilute it with water in the mixing container and then add the cement and aggregates, in order to avoid the formation of lumps.

- The addition of **ECO•LATEX** may cause slight liquefaction of the mortar. For this reason, the final amount of water required will be less than normal.
- Do not use dirty or salty water for dilution.
- After application, mortars should be protected from rapid water evaporation for the first 48 hours, especially during the summer months.

## TECHNICAL CHARACTERISTICS

### PRODUCT CHARACTERISTICS

Appearance	low-viscosity emulsion
Colour	white
Chemical composition	styrene/butadiene copolymers
Density	1.02 ±0.05 kg/l
Dry solids content	25%
pH	8

### APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)

Application temperature	minimum: +5°C / maximum: +35°C
Consumption	Depending on the application. Indicatively: 10-20% b.w. of cement.

**Note:** Measurements were conducted in a laboratory environment. The varying conditions present on-site (temperature, humidity, ventilation, substrate absorbency) may affect the material's properties.

## SAFETY PRECAUTIONS

- **ECO•LATEX** is not dangerous according to CLP Regulation No. 1272/2008 about the classification, labelling and packaging of substances and mixtures.
- It is recommended to always wear appropriate protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, rinse well with plenty of clean water.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Refer to the product's Safety Data Sheet for further information on safe handling and precautions.
- **PRODUCT FOR PROFESSIONAL USE ONLY.**

## PACKAGING - STORAGE

Available in:

- 1kg, 5kg and 20kg plastic containers.

**Storage:** 12 months from production date, if stored in original, sealed container, protected from direct sunlight and frost.

## LEGAL NOTICE

The technical characteristics and recommendations for the use and application of the **FINOMIX** range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. **FINOBETON S.A. (FINOMIX)** has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.

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