

# latex

## enhancing 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



# LATEX

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### DESCRIPTION

Synthetic aqueous dispersion based on styrene-butadiene elastomer, with 30% active ingredients, for multiple improvements of the properties of cement-based mortars.

It increases adhesion, improves waterproofing, elasticity, surface hardness and the chemical resistance of the mortars, while at the same time it contributes to the reduction of shrinkage with no risk of cracks and significantly improves workability.

Its composition based on synthetic resins completely free of ammonia and APEO (Alkylphenol ethoxylates) makes it completely environmentally friendly.

It has low content in Volatile Organic Compounds (VOC) in conformity with the Directive 2004/42/EC.

### APPLICATIONS

LATEX is used as an admixture, replacing part of the water required for mixing cementitious mortars (traditional or premixed), significantly improving their properties. Suitable for masonry mortars, renders, floor-leveling screeds, tile adhesives and grouts.

The addition of LATEX allows the application of plasters and cement mortars in thin layers without the appearance of cracks.

It significantly improves the workability and elasticity of plasters and masonry mortars, allowing their application for restoration works, while increasing the adhesion of adhesive materials on substrates such as metal, wood, etc. It also improves resistance to moisture and surface hardness.

### PROPERTIES / ADVANTAGES

By adding LATEX to mortars, the following can be achieved:

- Improvement of mechanical strengths.
- Improvement of adhesion on difficult surfaces.
- Reduction of cracking due to drying shrinkage.
- Increased elasticity and resistance to frost and humidity.
- Increased waterproofing.
- Increased abrasion resistance.
- Increased resistance to dirt, solvents and acids.
- Enhanced workability and plasticity.
- Increased hydrophobicity of the hardened 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. LATEX contains <30g/l of VOCs.
- **Regulation (EC) No 1907/2006 (REACH):** LATEX does not contain Alkylphenol Ethoxylates (APEO-free).

### APPLICATION INSTRUCTIONS

- The substrate must be clean from dust, grease, subtle materials, etc., prior to application. The surface should be completely soaked before application, avoiding excess water on it.
- Shake the container well before use.
- LATEX is added to part of the mixing water. The amount depends on the application. It is recommended to first dilute LATEX with the water in the mixing container and then add the dry mortar.
- If needed, adjust the workability of the mixture by gradually adding the remaining amount of water.
- LATEX causes mortars to liquefy, thus reducing the total water required for mixing. For this reason, you should not use the entire amount of water at once.
- The addition of LATEX may significantly increase the drying time of mortars, depending on mixing ratio.

### CLEANING OF EQUIPMENT

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

### RECOMMENDATIONS

- Temperature during application should be between +5°C and +35°C.
- 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 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	fluid liquid
Colour	milky
Chemical composition	styrene / butadiene copolymers
Density	1.02 ±0.05 kg/l
Dry solids content	30%
pH	8

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

Application temperature	minimum: +5°C / maximum: +35°C
Consumption	Depending on the application. Indicatively: 10-15% 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

- **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.
- Consult product's Safety Data Sheet for further instructions on safety handling.
- **PRODUCT FOR PROFESSIONAL USE.**

### 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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