

INSEE LATEX

Bonding Agent for Concrete and Mortar

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is a Concrete Bonding Agent water-based Styrene Butadiene Polymer which is used as a binder between existing concrete and fresh concrete. It can be used for both interior and exterior applications. Apply by roller or brush on substrate before floor leveling such as primer. Mixed to cement-sand (mortar) as an admixture to improve the adhesion or increase the durability of concrete and mortar. With special properties of polymers, it has improved strength and waterproofing properties of concrete or mortar.

Advantages

- Excellent to improve adhesion strength between existing and fresh concrete
- It can be used for a wide range of applications, either apply by brush/roller or by mixing in mortar or concrete
- Reduce shrinkage, reduce de-bond, reduce air bubbles from the concrete surface, and reduce cracks
- Improve waterproofing of concrete, mortar for resistance to water penetration and salt-based compounds, increase durability
- Improve the plastering properties suitable to use for Horizontal and overhead
- Improve the tensile and flexural strength of concrete and mortar
- Non toxic

Applications

- Used as a bonding agent between old concrete and new concrete.
- Used for improved adhesion strength on smooth & polished concrete surfaces, porous surfaces with high water absorption before pouring concrete or mortar floor screeding, mortar floor leveling.
- Used for repair work, waterproof plastering work, texture, to increase adhesion properties.

Packaging

Gallon 5 liter, 20 liter pail and 200 liter drum.

Coverage Rates

Priming: 1 liter of INSEE LATEX (without mix with water) can cover an area of approximately 6 square meters, depending on the surface conditions prior to application such as concrete porosity, water absorption, surface curing, etc.



Mixing ratio (by volume)

Application	INSEE LATEX	Clean Water	Cement	Fine Sand
Priming	1	0 or 1	-	-
Repairing	1	1	2	1-3
Making texture plaster	1	2-3	As Need	As Need

Remarks:

- Stir or shake INSEE LATEX before every use.
- The mixed sand must be dry. The recommended mix ratio is only for a working guideline. For good and right quality, adjust the sand content properly by considering actual sand humidity and on site conditions.
- Only Portland cement or hydraulic cement is recommended.
- A little more water can be added to adjust the consistency during the mixing process.
- For surface plaster repairing, it should be cured with proper methods.
- Using fine sand or coarse sand, depending on the thickness to be repaired.

Surface Preparation

Clean the concrete surface to be free from dust, cement debris, dirt, oil stains and paint. In case the surface is shiny and very glossy, the surface should be treated rough by a mechanical method. If the surface has good water absorption, the surface should be saturated by water ponding and then remove all excess water until there is no standing water left. If there is the reinforcement rebar, clean those to be free from rust stains or parts that corrode.

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Mixing

Mix INSEE LATEX with water proportionally until it is well combined without separating layers. In case of mixing INSEE LATEX with cement and sand, should use a mixer with a low speed of 400-600 round per minute. Mix the INSEE LATEX together with water first, then add the cement sand that is well mixed (dry), mixing for about 3 minutes until the mix is homogenous and lump free.

Technical Information

Description	
Appearance	Milky white liquid
pH	~7
Specific gravity	~1.02
Solid content	~35%

Technical Properties

Properties	Standard	Specification	Test result
14D Bond strength by slant shear (Standard condition)	ASTM C1059 Type I	≥ 2.6 MPa	PASSED
14D Bond strength by slant shear (Water immersion condition)	ASTM C1059 Type II	≥ 8.6 MPa	PASSED

Remarks:

ASTM C1059 Type I is restricted for use in interior work not subject for water immersion or high humidity.

ASTM C1059 Type II exterior use. Used for areas subject to high humidity or immersion in water and is suitable for use in other areas.

Instructions

- Clean the concrete surface to be free from dust, cement debris, dirt, oil stains and paint. In case the surface is shiny and very glossy, prepared rough surface by a mechanical method, substrate should be saturated by water ponding. For reinforcement rebar clean those to be free from rust or parts that corrode.
- Use a primer before mortar floor screeding, floor leveling or pouring fresh concrete
 - Apply INSEE LATEX directly or mix with water in a 1: 1 ratio by volume can be used
 - Allow it becomes tacky. When touched, it is sticky like glue.
 - Pour concrete or mortar floor screeding, floor leveling as desired. Do not allow INSEE LATEX to dry out completely.
- Repairing
 - Apply INSEE LATEX on the area to be repaired, wait until it tacky when touched, it becomes sticky like glue.
 - Mix INSEE LATEX follow mixing ratio guideline table with water until it is well combined first then add the rest materials mix until homogeneous and lump free.
 - Apply the mixed above on the area are prepared by the INSEE LATEX layer that become sticky like glue.
- Provide a Texture for Plastering
 - Mix INSEE LATEX follow mixing ratio guideline table with water until it is well combined first then add the rest materials mix until homogeneous. Apply the mixed to provide a texture for plastering as desired surface.

Storage & Shelf Life

The product is sealed in unopened packaging, valid for 12 months from the date of manufacture. Store the product in a shady place, dry, free from moisture.

Precautions

- Stir or shake before every use.
- If in contact with skin, wash with clean water. In case of contact with eyes, rinse with clean water and seek medical advice
- Follow instructions precisely for effective result
- Clean the tool immediately with plain water
- Keep out of reach of children