

Akrilik Latex



Acrylic latex waterproofing and bonding admixture for concrete and mortar

Description

An acrylic latex-based, water-based liquid polymer dispersion admixture used to improve the waterproofing, adhesion, and strength of cement-based concrete and mortars, and to form a bonding bridge between old and new concrete. It reduces capillary pores to lower water absorption while providing flexibility and durability.

Advantages

- Enhances adhesion.
- Forms a strong and permanent bond.
- Significantly improves waterproofing.
- Reduces capillary pores.
- Minimizes crack formation.
- Increases freeze-thaw resistance.
- Reduces dusting.
- Provides elasticity.
- Easy to apply.
- Chloride-free; does not harm reinforcement.

Areas of Use

- Screed and plaster applications,
- Cement-based repair mortars,
- Water tanks and treatment plants,
- Pools and canals,
- Foundations, retaining walls, and basement walls,
- Tunnels and infrastructure structures,
- Terrace and balcony concretes,
- Used for bonding old and new concrete, preventing cold joints, and increasing adhesion,
- To protect exterior mortars from freeze-thaw cycles,
- To improve adhesion in fair-faced concrete and for plasters and mortars applied to surfaces.

Surface Preparation

The surfaces to be treated must be damp. Dry surfaces should be pre-moistened before application. Care should be taken to avoid the formation of standing or ponding water. All surfaces must be free from dust, cement laitance, rust, dirt, paint, grease, oil, and similar contaminants. The application surface should be sound and free of loose particles or weak layers. If any loose or weak layers are present, they should be removed by scraping and cleaning, and the surface should be repaired using Hammerfast RM-150 Repair Mortar.

Application and Dosage

1 – In Plaster Mortars:

Mix 350 kg of cement with 1 m³ of suitably graded aggregate. Add approximately 5–7 kg of Hammerfast Latex to the pre-measured mixing water and gradually incorporate it into the mixture while mixing until a trowelable consistency is obtained.

2 – In Coating Mortars:

Mix 1 m³ of suitably graded aggregate, 250 kg of cement, and 4–6 kg of Hammerfast Latex with an appropriate amount of water. The prepared mixture is applied to the substrate prior to the installation of floor covering materials.

3 – In Splash / Bonding Mortars:

For splash mortars, mix 350 kg of cement with 1 m³ of suitably graded river sand, then add 10 kg of Hammerfast Latex. Add water gradually until the desired consistency is achieved.

4 – In Screed Applications:

Mix 350 kg of cement with 1 m³ of suitably graded aggregate. Add approximately 4–6 kg of Hammerfast Latex to the pre-measured mixing water. The prepared liquid mixture is gradually added to the dry mix and blended until a mortar with the required consistency is obtained.

5 – Bonding Bridge Between Old and New Concrete:

Used to prevent cold joints when applying new concrete or screed onto existing concrete. Hammerfast Acrylic Latex is applied undiluted onto the clean, dry, and dust-free old concrete surface using a brush or roller, immediately before placing the new concrete. The new concrete should be placed within a maximum of 15 minutes after the application.

Note: These technical values are based on laboratory data. Performance may vary depending on site conditions. A preliminary trial application is recommended before use.

Precautions

- Surfaces must be clean, sound, and free from oil before application.
- The product should be added directly to the mixing water.
- It must be mixed homogeneously with concrete or mortar components.
- Proper curing should be applied after placing fresh concrete.
- Do not use in frozen, thawing, or frost-risk environments.
- Ambient and material temperatures should not be below +5 °C during application.

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- Avoid application under direct sunlight, strong wind, or very hot weather.
- Product stored for a long time should be stirred before use.
- Adding extra water after mixing may reduce performance.
- Exceeding the recommended dosage may adversely affect setting time and strength.
- Appropriate laboratory tests should be conducted when designing concrete or mortar mixes.
- Metal surfaces and reinforcements must be free from oil, rust, and dirt.
- Fresh concrete should be protected using suitable curing methods.
- If used together with other chemical admixtures, a preliminary test is recommended..

Technical Properties

Color and appearance	White liquid
Chemical structure	Acrylic-based latex
Density	1,00-1,05 g/cm ³
pH	7-9
Solid content	%42-45
Solubility	Completely miscible with water
HS Code (GTIP)	3824.40.00.00.00

Note: Values are given at 23 ± 2 °C temperature and 50 ± 5% relative humidity.

Storage and Shelf Life

The product can be stored for 12 months from the date of manufacture when kept in its original, unopened packaging, in dry and moisture-free conditions, protected from direct sunlight, and at temperatures between +10 °C and +35 °C. When not in use, the container must be tightly sealed, and pallets should not be stacked on top of each other.

Packaging

- 5 kg jerry can
- 10 kg jerry can
- 30 kg drum
- IBC tank (1000 kg)

Cleaning of Tools

All tools should be cleaned with warm water immediately after application.

Safety Precautions

- Keep out of reach of children.
- Do not eat or swallow.
- Keep away from foodstuffs.
- Do not inhale directly; avoid contact with the body.
- May cause allergic reactions.
- In case of eye contact, rinse thoroughly with plenty of water and seek medical advice.
- Use protective gloves, goggles, and clothing during application.
- Wash hands thoroughly with plenty of water after use.
- For detailed safety information, refer to the Material Safety Data Sheet (MSDS).

Quality Certificates

- ISO 9001
- ISO 14001
- CE (EN 934-2)

