

YAPIFINE® LATEX

Adherence Enhancer & Waterproofing Additive



Product Definition

Acrylic dispersion based, adherence improving primer and waterproofing screed, plaster and concrete additive.

Areas of Use

- Used as primer under self-spreading screed in and on:
- As admixture for improving waterproofing of interior and exterior plasters at reinforced concrete silos, water tanks, pools and treatment plants,
- As adherence admixture in mortars prepared for repairing disturbed concrete surfaces, screeds and plasters,
- To ensure adherence between old and new concrete.
- Engineering structures such as subway, highway, tunnel and dam,
- To prevent dusting and cracking of screed

Technical Specifications

Appearance	White liquid	Pot Life (20°C)	~60 minutes
Chemical Structure	Acrylic Emulsion	Drying time (minutes)	135 minutes
Density	1.02 kg/L ± 0.03	pH	7 - 9

* Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.

 Packaging	10 kg and 30 kg plastic drum	 Consumption	YAPIFINE LATEX/Water Rate is between 1:1 and 1:4.
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Application Instructions

To increase the adherence and water impermeability in concrete, the mixing properties of concrete sample decided to be poured on the construction site are as follows.

Concrete Class	C 25
Maximum Grain Diameter	22 mm
Cement (CEM 1 42,5 R)	370 kg
Water/Cement (W/C) Rate	0.49
Crushed Sand (0-5 mm)	454 kg
Stone Dust	335 kg
Aggregate (5-12 mm)	468 kg
Aggregate (12-22 mm)	454 kg
Super Plasticiser	3.7 kg
Air Content	% 1.5
Slump	16 cm
Determining Amount of Yapifine Latex to be used as to water within concrete	
Determining water included in the concrete	42.25 kg
Water: from 1:1 to 1:4	Taken up to 1:4 in sampling.

Application Information

  YAPIFINE LATEX is used from 1: 1 to 1: 4 of the water used in concrete. it is poured into the truck mixer arriving

into the building site. The concrete mixer is stirred for 5 minutes at high speed. The concrete is placed in the mold. Concrete prepared with YAPIFINE LATEX is recommended to be used for special purposes. It minimizes the chlorine and water impermeability. **To increase the adherence and water impermeability in screed:** At the building site, 50 kg of cement for 150 kg of sand is prepared as a dry mixture. YAPIFINE LATEX is poured into a clean barrel in 30 kg bins. Then 4 drums of water are poured into the barrel. Depending on the humidity in the sand, the YAPIFINE LATEX: Water ratio can be changed from 1:1 to 1: 4. The barrel is mixed homogeneously. The prepared dry mortar is opened by mixing with YAPIFINE LATEX and water mixed liquid form. **In order to increase the adhesion between the old and the new concrete or to use it as a base coating before plaster:** It is used to prevent cold joint formation on new concrete or screed applications on old concrete and to increase adherence. A: 1 kg of cement and 3 kg (0 - 3 mm) washed stream sand is mixed. B: 1 kg of YAPIFINE LATEX is mixed with 2 kg of water. Mixtures A and B are mixed together until the mixture has a thick consistency. The prepared mixture is applied on the surface soaked with a brush for 12 hours beforehand to a thickness of 2 mm. Before the mortar dries within 20 minutes, plaster, screed and concrete applications are also done on top of it. **If it is to be used as rough before plastering:** Prepared mortar is sprinkled rapidly on concrete surface with trowel. Rough or fine plaster is applied next day after the rough rendering is dried. **To increase the water impermeability in the plaster:** At the building site, 50 kg of cement for 150 kg of sand is prepared as a dry mixture.

Advantages

- Perfect adherence and elasticity
- Ensures waterproofing
- Establishes stable and permanent bond.
- Decreases surface absorptiveness once applied on absorptive surfaces.
- High resistance against oil and salt solutions
- Dries without crack and abrasion resistant.
- Enhances chlorine impermeability
- Does not lead to corrosion and saponification.

YAPIFINE LATEX is poured into a clean barrel from 30 kg bins. Then 4 bottles of water are poured into the barrel. Depending on the humidity in the sand, the YAPIFINE LATEX: Water ratio can be changed from 1:1 to 1: 4. The barrel is mixed homogeneously. The dry mortar is added to the prepared liquid mixture and then they are mixed together as well. Then the application may begin with a trowel.

Application Conditions

Ambient temperature: between +5 °C and +30 °C. Avoid application under strong wind or direct sunlight. Avoid application in areas with risk of freeze in 24 hours, as well as those directly exposed to sunlight and wind. Never add any material not indicated in operation manual. The final consumption amount might vary depending on application conditions and surface characteristics.

Shelf Life

The shelf life of the product is 12 months when it is stored on wooden pallets in a cool, dry and moisture free environment with an ambient temperature between +10°C and +25°C.

Safety Precautions

The operator should be wearing proper work attire, goggles, mask and protective gloves appropriate to work and worker safety regulations. In case of contact with the eyes, rinse with plenty of water before seeking immediate medical attention. Rinse with plenty of water in case of contact with the skin. For further information on the safe handling of this product please read the Safety Data Sheet (SDS).