

YAPIFINE HYDRA[®] ACRYLIC

Acrylic Based Elastic Waterproofing Material



Product Definition

Elastomeric acrylic resin based, elastic, ready-to-use one component waterproofing material.

Areas of Use

- Indoors and outdoors both
- In both vertical and horizontal applications
- Streams and gutters
- Edges of chimneys
- Wet areas such as bathrooms and kitchens
- Inclined terrace roofs
- Metal surfaces such as iron, steel, galvanized sheet and aluminum

Advantages

- Ready-to-use
- Elastic
- Adheres well on surfaces due to its high adherence strength
- Provides a coating without any joints or junctures.
- Allows the concrete to breathe due to its structure permeable to water vapor.
- Provides exceptional protection against carbonation.
- Solvent-free and nontoxic.
- Can easily be applied with a brush or a roller.


Technical Specifications

Appearance	White liquid
Density	1.50 kg/L ± 0.03
pH	8 ± 1
Application Temperature	Between +5°C and +30°C
Time Before Use	min. 3 days
Service Temperature	-25°C / + 80°C
Time Required to Attain Final Strength	14 days
Time Required to Become Waterproof	7 days

Time Period Between Layers	5 hours
Adhesive Strength	≥ 1 N/mm ²
Water Vapour Transmission Rate	< 0.6 g/(h.cm ²)
Water Transmission Rate	< 0.1 kg/(m ² .h ^{0.5})
Crack Bridging	> 2.5 mm
Elasticity	200-300 %
Reaction to Fire	Ds1d0

* 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	20 kg plastic drum
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 Consumption	1.50 kg/m ² per layer. Should be applied as two layers minimum.
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Surface Preparation

The surface should be cleaned of all residual materials such as dust, oil, dirt, paint, curing materials, bitumen and other foreign substances.


The damaged parts of the concrete, fractures and static cracks on the surface should be repaired with the appropriate YAPIFINE MEND repair mortar first.

Water infiltration should be eliminated with the usage of YAPIFINE HYDRA SHOCK. Dynamic cracks should be filled with YAPIFINE GOOP HYBRID or YAPIFINE GOOP Sealant.

Sharp corner and edge joints should be chamfered.

The application surface should be saturated with water, the saturation procedure should begin 24 hours before the application and the surface should be kept wet during the application as well. Make sure there are no water puddles on the surface.

Application Information

 The product is applied to the surface in a minimum of 2 layers with a brush without dilution. The film thickness on each layer

should be between 1-1.5 mm. The layers should be homogeneous, smooth and even and the application should be done in the same direction on each specific layer. Once the first layer finishes drying the second layer can be applied. 6 hours should pass after the application of the first layer so that the second layer can be applied. After a layer's application, when a hand inspection is done on the layer and there are no traces left on the fingers then the second layer can be applied. In order to achieve a greater carrying property it is recommended to use waterproofing nets and felts in-between the layers. The material becomes waterproof 7 days after its application.

Application Conditions

Is not suitable for use in water tanks, swimming pools and foundations. Metal surfaces and surfaces with old bitumen should be primed with synthetic primer. Not applicable to wet and damp floors. Should not be applied to surfaces that were exposed to sunlight for too long or to surfaces that are too hot or frozen.

Should not be applied when the ambient temperature is not within the values of +5°C and +30°C.

The application area should be protected from the effects of wind and direct sunlight.

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 stored in its original packaging in dry (maximum relative humidity 60 %), cool (ambient temperature between +10°C and +25°C) and moisture-free environment.

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 or accidental ingestion of the product, seek immediate medical attention.

Rinse with plenty of water in case of contact with the skin. Since it's cement based, do not breathe.

For further information on the safe handling of this product please read the Safety Data Sheet (SDS).