

# YAPIFINE HYDRA<sup>®</sup> PROOF

Two Component Semi-Flexible Waterproofing Material



## Product Definition

A semi-flexible waterproofing two-component material that is a combination of liquid polymers and special additives which can only be used from the positive side.

## Areas of Use

- Horizontal and vertical applications,
- Balconies and terraces, on the condition of being covered,
- Wet areas such as bathroom, toilet and kitchen
- On surfaces of concrete, plaster and screed.

## Advantages


- Semi-flexible.
- Creates waterproof covering without joint or juncture.
- Easy to apply. Applicable with brush and/or trowel.
- Bonds well on surfaces due to its high adherence.
- Allows the concrete to breathe due to its structure permeable to water vapour.
- Resistant to freeze-thaw cycle.
- Nontoxic and noncorrosive.


## Technical Specifications

Appearance	Component A: Grey powder Component B: White liquid
Mixture Density	1.78 kg/L ± 0.50
Service Temperature	-25°C / +80°C
Time Before Use	min. 3 days

Adhesive Strength	≥ 0.8 N/mm <sup>2</sup>
Water Transmission Rate	< 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> )
Water Vapour Transmission Rate	< 0.6 g/(h.cm <sup>2</sup> )
Pressurised Water Strength	5 Bar positive
Reaction to Fire	Bs1d0

\* 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.

 <b>Packaging</b>	Component A: 20 kg kraft bag Component B: 5 kg plastic drum
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 <b>Consumption</b>	2.5 – 3 kg/m <sup>2</sup> of powder consumption for 2 coats of application
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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. The application of the YAPIFINE HYDRA PROOF should start 3-4 days after the usage of the repair mortar.

Water infiltration should be eliminated with the usage of YAPIFINE HYDRA SHOCK, the dynamic cracks should be filled with YAPIFINE GOOP HYBRID or YAPIFINE GOOP Mastik.

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. (last sentence might change)

On absorbent surfaces it is recommended to use YAPIFINE UNI PRIME.

## Mixture Preparation

20 kg of powder component should be slowly added to 5 kg of liquid component.

No foreign substances or liquids should be added to the mixture.

The mixing process should be performed with a low-speed mixer for 5 minutes until the mixture reaches a homogenous state. Once a homogenous state is reached the mixture should rest for 3 minutes after which it should be mixed for 2 more minutes and finally the mixture should be applied within 30 minutes of the last mixing step.

## Application Information



The mixture should be applied on the intended surface with a brush or trowel in a minimum of two layers with dry film thickness of 2 mm. The first layer should be fully dry before the second and the layers are applied perpendicular to the previous layer. Make sure layers are homogenous and smooth. The application should be done in the same direction on any specific layer.

After topcoat, the surface should be protected from direct sunlight, air circulation and frost for 3 days. The substrate should be wetted and kept damp if needed.

## Application Conditions

Do not apply on surfaces exposed to sunlight for too long, as well as too hot and frozen surfaces.

Ambient temperature: between +5 °C and +30 °C.

Avoid application under strong wind or direct sunlight.

Only use YAPIFINE liquid component for mixture and never add water.

The indicated consumption amount is in general sense. It may vary depending on application conditions and surface characteristics.

The application area becomes completely watertight within 5-7 days. In order to attain the projected and required long-lasting performance, it is recommended to cover the surface with appropriate material after application.

## Shelf Life

The shelf life of the product is 12 months when stored within non-tampered original packaging in dry (maximum relative humidity 60 %) and cool (ambient temperature between +5°C and +25°C) environment.

## Safety Precautions

In case of contact with eyes or ingestion, rinse immediately with plenty of clean water and seek medical attention.

Avoid direct contact with eyes and skin.

Since it's cement based, do not breathe.

Please read Safety Data Sheet (SDS) for further safety information.