

# YAPIFINE HYDRA<sup>®</sup> PROOF UV

Two Component UV-Resistant  
Flexible Waterproofing Material



## Product Definition

White cement and acrylic based polymer reinforced fully elastic two-component waterproofing material that is produced by means of modification with chemical additives that can only be used on its positive side which is UV-resistant and is suitable for light pedestrian traffic.

## Areas of Use

- Horizontal and vertical applications,
- Terrace roofs, on the condition of staying uncovered,
- Water tanks, swimming and ornamental pools,
- Facilities such as spas and Turkish baths,
- Wet areas such as bathrooms and kitchens,
- On surfaces of concrete, plaster and screed.

## Advantages

- Fully elastic.
- UV-resistant; does not shrink or crack.
- Easy to apply. Applicable with trowel, roller, brush or spraying machine.
- Applicable on fresh screed and concrete surfaces due to its crack bridging property.
- Prevents carbonation on concrete.
- Resistant against chlorine ions.
- Allows the concrete to breathe due to its structure permeable to water vapor.
- Resistant to freeze-thaw cycle.
- Nontoxic and noncorrosive.

## Technical Specifications

Appearance	Component A: White powder Component B: White liquid
Mixture Density	1.80 kg/L ± 0.50
Pot Life	6 hours
Application Temperature	Between +5°C and +30°C
Service Temperature	-40°C / +80°C
Time Before Use	3-7 days
Waiting Period Between Layers	5-6 hours
Adhesive Strength	≥ 0.8 N/mm <sup>2</sup>
Capillary Water Absorption	< 0.1 kg/(m <sup>2</sup> .h <sup>0.5</sup> )
Crack Bridging	≥ 2.5 mm

Adhesion Strength After Thermal Ageing	≥ 1 N/mm <sup>2</sup>
Adhesive Strength Without Defrosting Salt Effect	≥ 1 N/mm <sup>2</sup>
Pressurised Water Strength	7 Bar Positive
Water Vapour Permeability	Class I ; Sd < 5
Chlorine Ion Diffusion	≤ 200 Coulomb (Class: very low permeability)
Carbon Dioxide Permeability	Sd > 50 m
Reaction to Fire	Cs1d0

\* 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: 10 kg plastic drum
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<b>Consumption</b>	2.5–3.4 kg/m <sup>2</sup> of powder consumption for 2 mm 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 UV 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

The 10 kg liquid component is added to a clean container. The 20 kg powder component is slowly added to the liquid. No other foreign substances or water should be added to the mixture.

Components are mixed preferably with a low speed mixer until a homogenous mixture is achieved.

The prepared mortar is left to rest for 5 minutes after which it is once again mixed for 1-2 more minutes before application.

The mixture inside the container should be used within 30 minutes.

## Application Information



The prepared mixture is applied in a minimum of 2 layers onto the surface that is saturated with water with a brush, trowel or spraying machine. The layers should be homogeneous, smooth and even. The application should be done in the same direction on any specific layer.

A new layer should be applied after the last applied layer dries off.

The layers are applied in a perpendicular direction relative to the layer applied previously.

Depending on the temperature 5 to 6 hours should pass before applying a new layer.

A total application thickness of 2-3 mm will suffice.

It is recommended to use waterproofing mesh or seal between the layers in order to improve the carrying capacity of the product.

After the application of the last layer, the surface can be smoothed out with a dry sponge.

After the last layer, the product should be protected from direct sunlight, air circulation and frost for 3 days. Product should be wetted and kept damp if needed.

### **Application Conditions**

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Do not apply on surfaces that are too hot, frozen or exposed to sunlight for too long.

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

The application area should be kept free from the effects of wind and direct sunlight during application.

The mixture should be prepared using only its own liquid, water should not be added during the mixture preparation.

The final consumption amount might vary depending on application conditions and surface characteristics.

The application area becomes completely water resistant 5-7 days after the application.

### **Shelf Life**

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

### **Safety Precautions**

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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.