

# YAPIFINE HYDRA<sup>®</sup> BITUMEN

Bitumen Based Waterproofing Material



## Product Definition

Bitumen based, elastic, polymer modified one component thick waterproofing material that can only be used on its positive side.

## Areas of Use

- Both indoors and outdoors.
- Horizontal and vertical surfaces
- Foundation and shear walls
- Wet locations, retaining walls
- For the purposes of protecting and insulating the constructions and construction elements under the influence of constant or temporary water pressure
- Can be used in the adhesion of tiles used for insulation or drainage purposes. Since it is not resistant to UV, the product should be appropriately covered after application

## Advantages


- Easy to apply.
- Solvent-free.
- Provides a waterproof coating without any joints.
- Adheres well to surfaces due to its high adherence.
- Has a crack bridging property.
- Is applied cold, dries rapidly.
- Is not subject to sagging in vertical applications.

## Technical Specifications

Colour	Brown (black upon drying)	Contact With Water	48 hours
Density	1.10 kg/L ± 0.03	Crack Bridging	2 mm
pH	11.50 – 12.50	Resistance to Rain	R1
Application Temperature	Between +5°C to +30°C	Impermeability to Water	W1
Pot Life	1 – 2 hours	Resistance to Pressure	C2B
Drying Time	min. 48 hours	Reaction to Fire	E

\* 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>	30 kg plastic drum
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 <b>Consumption</b>	Total consumption for 2 coats of application is provided in the table below.		
	<b>Area of Use</b>	<b>Dry Film (mm)</b>	<b>Consumption (kg)</b>
	Areas exposed to floor humidity	3 mm	4,5 kg/m <sup>2</sup>
	Insulation against temporary pressurized water	3 mm	4,5 kg/m <sup>2</sup>
	Areas permanently subject to pressurized water	4 mm	5,5 kg/m <sup>2</sup>

\* Recommended to use glass fibre reinforcement between layers.

## 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 primed with a solvent-free bitumen primer and the application should begin once the primer is completely dry.

## Lining

The product can be diluted with water with a 1/5 ratio after which it can be used for the priming procedure.

The material should be distributed evenly with a suitable brush and applied without material accumulation on surface.

The actual application should begin after the primer has finished drying/setting.

The recommended usage ratio is 0.25 kg/m<sup>2</sup>.

## Application Information



Should be applied with an appropriate brush, trowel or spraying machine in a minimum of 2 layers.

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### Application Information (Continuation)

In order to apply the second layer, the first layer needs to finish drying first.

The second layer should be applied perpendicular to the first layer.

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

Until through-dry state is achieved the foundation pit should not be closed. After the cover is protected with the appropriate thermal insulation and drainage plates, a filler application should be applied as well.

The tools used should be rinsed off with water before they dry. In case the material on the tools have already dried, solvent can be used in order to clean them.

### Application Conditions

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

While it is raining or there is a risk of rain, the application should not take place.

The application area should be protected from the effects of wind and direct sunlight. Avoid applications in areas that are affected by direct sunlight or wind or areas that are in risk of a freeze in the next 24 hours after application.

Application should be done on the part of the construction that is in contact with water.

Since the material will take longer to cure in cold weather, the second layer should be applied only after the first layer finishes drying/setting.

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.

Should be stored without putting palettes on top of each other

### 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.

In case of 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).