

YAPIFINE HYDRA® PU UV

Polyurethane Based Liquid
Waterproofing Membrane



Product Definition

Polyurethane based, low-viscosity, UV resistant, one component, elastic liquid membrane that cures with the ambient moisture which can be used for waterproofing and protection purposes.

Areas of Use

- Indoors and outdoors applications
- Terraces and balconies,
- Areas beneath coating (wet areas, bathrooms),
- Parking lots, stadium floors,
- Uncovered roofs.

Advantages

- UV-resistant.
- Ready to use
- Easy to apply (with brush or roller)
- Excellent adhesion to any surface
- Curing with humidity in air ensures elastic and durable film.
- Prevents leakage since it does not create joints.
- Effective permeability to water vapor allows the surface to breathe hence preventing the moisture accumulation.
- Even if membrane is damaged in any manner, the damaged part can be easily repaired in a short time.
- Is resistant to water and other chemical materials.

Technical Specifications

Colour	White, Grey
Density (+20°C)	1.40 g/cm ³ ± 0.03
Viscosity (+25°C)	10–50 cP
Application Temperature	Between +5°C to +40°C
Drying Period (at +23°C, 55% relative humidity)	Drying Time: 4 hours Time for New Coat: 6–24 hours Through-dry Time: 4 days
Hardness (Shore A)	60

Capillary Absorption and Permeability to Water	0.80 g/(m ² .h ^{0.5})
Permeability to Water Vapour	Class 1
Rupture-Expansion Percentage	≥ % 600
Tensile Strength	≥ 8 N/mm ²
Adhesive Strength to Concrete	≥ 2 N/mm ²
Reaction to Fire	B2

* 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	25 kg tin drum
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Consumption	Minimum 0.75 – 0.90 kg/m ² for each layer. Apply in two coats minimum. Total theoretical consumption is 1.5 – 1.8 kg/m ² .
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* Application depends on the absorbency and roughness of the surface.

Surface Preparation

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

If possible, the surface should be washed with highly pressurized water and then dried off.

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 moisture of the application surface should not be more than 5%. YAPIFINE EPOXY PRIME H should be used on surfaces with a high moisture level. For absorbent surfaces such as concrete, screed and wooden surfaces YAPIFINE HYDRA PU PRIME should be used.

For non-absorbent surfaces such as metal, ceramic or old coatings YAPIFINE HYDRA PU TILE PRIME should be used.

Mixture Preparation

Before use, unpack and blend for a few minutes with a low-speed mixer. Ready to use, thinning not recommended.

Application Information



Apply the mixture on primed surface with a brush or a roller in a minimum of two layers. The second layer should be applied between a minimum of 4 hours and a maximum of 24 hours after the application of the first player.

Application Conditions

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 on

wooden pallets in its original packaging in dry (maximum relative humidity 60 %), cool (ambient temperature between +5°C and +25°C) and moisture-free environment. The unpacked material should be used as soon as possible.

Safety Precautions

No smoking should take place during application. The work environment should be well ventilated and should not include any open flames. Since the solvents are heavier than air it should be remembered that they will be in circulation over the floor. 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. For further information on the safe handling of this product please read the Safety Data Sheet (SDS).