

YAPIFINE HYDRA® PU CLEAR

Polyurethane Based Transparent Liquid
Waterproofing Membrane



Product Definition

Aliphatic polyurethane based, transparent, one component, liquid waterproofing membrane.

Areas of Use

- Terraces,
- Verandas and balconies,
- Concrete and natural stone surfaces,
- Glass surfaces,
- Ceramic surfaces.

Advantages


- Perfect mechanical features.
- High UV resistance.
- Cures with humidity in air. Adheres on surfaces without interruption, ensuring a transparent, durable and elastic film.
- Perfect resistance against bad weather.
- Easy to apply (with roller or brush).
- Able to withstand constant contact with water without any problems due to its pure polyurethane structure.
- Preserves mechanical features in temperatures from -40°C to +80°C.
- High adhesive strength.
- Alkali and chemical resistance. Preserves transparency and elasticity after years.

Technical Specifications

Colour	Transparent	Hardness (Shore D)	40
Density (+20°C)	1 g/cm ³ ± 0.03	Rupture-Expansion Percentage	≥ % 350
Viscosity (+25°C)	1500 ± 100 cP	QUV	3000 hours
Service Temperature	100 days at +80°C Dry sudden heat at +200°C	Tensile Strength	≥ 35 N/mm ²
Drying Period (at +23°C, 55% relative humidity)	Drying time: 6 hours Time for new coat: 8-24 hours Through-dry time: 7 days	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	1-5 kg tin drum
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 Consumption	0.10-0.50 L/m ² for each layer. Apply in a minimum of two layers. Total theoretical consumption is 0.2 - 1 L/m ² .
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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.

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

Lining

YAPIFINE HYDRA PU TILE PRIME should be used on polished non-absorbent surfaces such as polished ceramic tiling, glass and glass bricks. YAPIFINE HYDRA PU TILE PRIME should be applied with a cloth and the lining should be carried out without any flaws.

Mixture Preparation

The product should be opened and stirred with a low speed mixer in its packaging for a few minutes before use.

Application Information



The mixture is poured onto the surface and is then applied in a minimum of 2 layers with a brush or a roller until the whole surface is covered. The second layer should be applied 8 at minimum and 24 hours at maximum after the application of the first player. The resting time between the layers should not exceed 48 hours. The tools used during the application should be cleaned within 2 hours after the application.

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 +35°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 9 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. 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).