

YAPIFINE BASE® PU ALF

UV-Resistant Polyurethane Based Top Coating



Product Definition

One component, aliphatic polyurethane based top coating curing with humidity in air, offering high UV resistance.

Areas of Use

- Indoor and outdoor places,
- Surfaces requiring high abrasive strength,
- Areas with intense pedestrian traffic,
- Stadia, parking lots,
- Materials such as marble, ceramics and natural stones,
- Roofs, terraces, verandas and balconies
- Industrial floors.

Advantages


- High UV resistance.
- Ceaseless adhesion to application surface ensures transparent film.
- Thanks to aliphatic structure, does not discolour or blench upon exposure to sunlight.
- Easy to apply.
- Removes the possibility of leakage since it doesn't cause any joint formations.
- High adhesion.
- Preserves mechanical characteristics in temperatures between -40°C and +80°C.
- High chemical and mechanical resistance.

Technical Specifications

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| Colour | Transparent | Adhesive Strength to Concrete | ≥ 2 N/mm ² |
| Density (+20°C) | 0.97 g/cm ³ ± 0,03 | Tensile Strength | ≥ 50 N/mm ² |
| Appearance | Glossy | Abrasion Resistance By Taber Abraser | 70 mg |
| Pot Life (+20°C) | 30 minutes | Hardness (Shore D) (7 days) | 60 |
| Temperature Resistance | 100 days at +80 °C Dry sudden heat of +200 °C | Permeability to Water Vapour | Class 1 |
| Application Temperature | Between +5°C to +30°C | Capillary Water Absorption | ≤ 0.5 kg/(m ² .h ^{0.5}) |
| Full Cure | 48 hours | Permeability to CO ₂ | Sd > 50 |
| Resistance Against Chemical and Mechanical Loads | 7 days | Rupture - Expansion Percentage (+23°C) | ≥ % 50 |
| | | QUV | 2000 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.

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|  Packaging | 20 kg tin drum. |
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|  Consumption | 0.1-0.15 kg/m ² for each layer. Apply one or two coats. Total theoretical consumption is 0.1 - 0.25 kg/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 sections of the concrete, the fractures and static cracks on the concrete surface should be repaired with the YAPIFINE MEND repair mortar. The application of the YAPIFINE BASE PU ALF should be started 3-4 days later. Dynamic cracks should be filled with YAPIFINE GOOP HYBRID or YAPIFINE GOOP Mastic.

The surface should be prepared by washing it down with pressurized water and drying it afterwards.

Lining

Use YAPIFINE HYDRA PU PRIME or YAPIFINE BASE EPOXY PRIME for absorptive surfaces such as concrete, cement, screed, wood etc. (Maximum humidity on these surfaces should be 5%).

Prefer YAPIFINE BASE EPOXY PRIME H for lining on humid surfaces.

Use YAPIFINE HYDRA PU TILE PRIME on non-absorptive surfaces such as metal, ceramic or former coating.

Apply with brush or roller. Waiting period between coats should not exceed 48 hours. If it does and in case you are not sure about adherence between layers, use YAPIFINE HYDRA PU PRIME.

Mixture Preparation

Before use, unpack and blend for a few minutes with a low-speed mixer. Avoid high amounts of air to intervene with the agent during mixture preparation. Otherwise, bubbles may occur on cured film.

Application Information



Apply at least 2 layers by brush, roller or airless spray. Do not apply more than 200gr/m² in a single coat.

Waiting period between coats should not exceed 48 hours. Clean the tools used for application within 2 hours. Cured material can only be removed mechanically.

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.

After application, the surfaces must be protected against external influences such as water, rain, snow until it's completely dry.

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

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Shelf Life

The shelf life of the product is 12 months when it is stored on wooden pallets in a cool, dry and moisture free environment with an ambient temperature between +5°C and +25°C.

The opened 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.

Ensure well ventilation in enclosed spaces.

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.

For further information on the safe handling of this product please read the Safety Data Sheet (SDS).