

# YAPIFINE BASE® PU

Two Component Polyurethane Based Self Levelling Coating



## Product Definition

Polyurethane based, solvent free, two component, self levelling glossy floor coating with high chemical abrasive strength and crack bridging feature.

## Areas of Use

- Factories,
- Storage areas,
- Parking lots,
- Concrete floors requiring chemical and mechanical strength,
- Floors requiring high abrasive resistance and strength,
- Stores and offices,
- Cold storages
- Schools and hospitals.

## Advantages

- Solvent-free.
- Resistant against friction and abrasion.
- Elastic structure.
- Ensures joint-free, monolithic surface.
- Easy to clean,
- Hygienic.
- Does not require maintenance for a long time.
- Easy to apply.

## Technical Specifications

Colour	White, Grey, Terracotto, Blue, Green	Adhesive Strength to Concrete	≥ 2 N/mm <sup>2</sup>
Mixture Ratio	4 / 1 (Component A/ Component B)	Tensile Strength	≥ 50 N/mm <sup>2</sup>
Pot Life (+20°C)	25 minutes	Abrasion Resistance by Taber Abraser	70 mg
Density (+20°C)	1.60 g/cm <sup>3</sup>	Hardness (Shore D) (7 days)	83
Application Temperature	Between +5°C to +30°C	Permeability to Water Vapour	Class 1
Step Over Time	16 hours	Capillary Water Absorption	≤ 0.5 kg/(m <sup>2</sup> .h <sup>0.5</sup> )
Full Cure	48 hours	Permeability to CO <sub>2</sub>	Sd > 50
Resistance Against Chemical and Mechanical Loads	7 days	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>	Tin drum set of 20 kg + 5 kg	 <b>Consumption</b>	2.4 kg/m <sup>2</sup> for 1.5 mm thickness (without sand)
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## Surface Preparation

The concrete floor should be clean, strong and at a minimum standard of C25 and preferably on a C30 - C35 standard. Concrete surfaces should be prepared so as to ensure porous surface upon removing cement grout. Surface moisture should not exceed %4 pbw. Do not apply on concrete surfaces with rising humidity conditions. Application surfaces should be sound, clean, dust-free, and free from molding oils, curing material, bitumen and other foreign substances. Such materials as mortar and cement residues should be peeled off. If possible the surface should be cleaned by washing it down with pressurized water and drying afterwards.

## Lining

Prefer YAPIFINE BASE EPOXY PRIME for lining. Lining agent is applied on surface in an even manner with appropriate brush, without allowing ponding. Once the primer dries, proceed to application. In case surface humidity is found to be beyond standards, prefer YAPIFINE BASE EPOXY PRIME H Humidity-Tolerant Primer.

## Mixture Preparation

Component A is stirred in its own container with a

low speed mixer (300-400 rpm) until it becomes homogeneous. Afterwards Component B is added into A and the mixture is stirred for 2 more minutes for it to become homogeneous as well. Avoid overmixing in order to lessen the effects of air entrapment.

## Application Information



Before beginning the application the relative humidity and the dewpoint should be checked, and then begin the application only if the appropriate conditions are met. YAPIFINE BASE PU is poured onto the primed surface. The product is then spread onto the surface with a notched trowel. Afterwards a spiked roller is used in order to remove the trapped air from the material. The prepared mixture should be used within 40 minutes.

## 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. Do not step on the surface during first 24 hours after application. Surface should be protected against direct water contact for 48 hours. 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 it is stored on wooden pallets in a cool, dry and moisture free environment with an ambient temperature between +10°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).