

YAPIFINE BASE[®] EPOXY POWER

Solvent Free Epoxy Based Self Levelling Floor Coating



EN 1504-2



Product Definition

Epoxy based, two component, solvent free and low viscosity self levelling floor coating with high chemical and physical strength.

Areas of Use

- Indoor and outdoor spaces,
- Food production and storage facilities,
- Shopping malls and supermarkets,
- Areas subject to light-medium industrial loads,
- Sewage and waste plants,
- Parking lots, walking trails,
- Pulp and paper factories,
- Refineries, warehouses and factories.

Advantages

- High chemical strength against alkali, dilute acid, sewage, water, oil products, mineral oils and fuels.
- High mechanical strength and abrasive strength.
- Provides good film after curing. Creates joint-free surface.
- Easy to clean thanks to smooth surface.
- Easy to apply.

Technical Specifications

Colour	Grey, White, RAL Colours	Flexural Strength	25 N/mm ²
Density (+20°C)	1.54 g/cm ³ ± 0.02	Compressive Strength	≥ 45 N/mm ²
Mixture Ratio	8.1 / 1.9 (A component / B component)	Adhesive Strength to Concrete	≥ 4 N/mm ²
Appearance	Glossy	Adhesive Strength to Metal	≥ 3 N/mm ²
Pot Life (+20°C)	30 minutes	Abrasion Resistance by Taber Abraser	70 mg
Drying Period (at +23°C, 55% relative humidity)	Drying Time: 10 hours Time for new coat: 8-24 hours Through-dry time: 7 days	Hardness (Shore D) (7 days)	76
Temperature Resistance	121°C Dry	Permeability to Water Vapour	Class 1
Application Temperature	+10°C and +30°C	Capillary Water Absorption	≤ 0.5 kg/(m ² .h ^{0.5})
		Permeability to CO ₂	Sd > 50
		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.

Packaging	Tin drums set of 16.2 kg + 3.8 kg set
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Consumption	Total theoretical consumption is 0.35 – 0.55 kg/m ²
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* Consumption may vary depending on chosen system thickness.

Surface Preparation

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

Such materials as mortar and cement residues should be peeled off.

If there is crack, hollow on the floor or wall, YAPIFINE MEND EPOXY 2C repair mortar can be applied.

Surface moisture should not exceed %4 pbw.

Do not apply on concrete surfaces with rising humidity conditions.

Surface's pull strength should be min. 1.5 N/mm².

Concrete quality: C25

Screed quality: Min.(EN 131813) CT-C25-F4

Lining

After surface preparation, the surfaces should be primed with YAPIFINE BASE EPOXY PRIME.

Moist surfaces should be primed with YAPIFINE BASE EPOXY PRIME H.

Depending on chosen system thickness, the application is carried out by mixing 0.1-0.3 mm dry silica sand in 1/1 ratio.

Mixture Preparation

Both of the components are stirred inside their respective containers with a low speed mixer first. Afterwards they are added to each other and are then stirred for a few more minutes until a homogeneous mixture is obtained.

Depending on the chosen system, it can be used by putting 0.1 – 0.3 mm dry silica sand with a 30% ratio.

The mixture's pot life at +25°C is 40 minutes.

Higher temperatures will reduce the mixture's pot life and lower temperatures will increase it.

Should not be mixed by hand.

Application Information

The product should be poured on to the surface and spread by a notched trowel. For the better finishing result, turn the notched trowel and smoothen the surface.

To obtain an even thickness and get rid of entrained air. 5 minutes after application use the spiked roller in two directions perpendicular to each other. This is especially necessary when the coating has been filled with silica sand.

Wait for minimum 4 days before taking into service.

Do not keep the equipments in use for more than 40 minutes in the mixture; in case of delay, wash equipments with epoxy thinner.

Even though YAPIFINE BASE EPOXY POWER is solvent free, proper ambient ventilation will help protect the operator, prevent condensation on paint film and ensure optimum coating performance.

Ventilation should continue during curing as well.

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.

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).