

EUCOBIND EP

EPOXY BINDER, SOLVENT-FREE.

FIELD OF APPLICATION

EUCOBIND EP is an epoxy-based, 2-component, solvent-free binder. It is a universal binder intended for all preparatory work before applying cast floors, coatings and multilayer synthetic resin floor systems consisting of polyaspartic, epoxy and polyurethane.

- As a primer on concrete, prepared surfaces.
- As a primer for polyaspartic, epoxy and polyurethane synthetic resin systems.
- As a primer on existing, old polyaspartic, epoxy and polyurethane synthetic resin systems.
- As a scraping layer, egaliser or as repair mortar.
- Particularly suitable for car parks, garages, warehouses, industrial halls, laboratories, private applications, food, shopping centres, museums, ...

BENEFITS & FEATURES

- Excellent adhesion.
- Excellent mechanical resistance..
- Excellent wetting of the substrate.
- Versatile.
- Easy to use.
- Can be overcoated with epoxy, polyurethane or polyaspartic systems

APPLICATION

Application conditions

EUCOBIND EP must be stored between +15 and +25°C, approximately 24 hours before application. The surface, the ambient temperature and the temperature of the equipment to be used must be between +5°C and +30°C.

Relative ambient humidity: max. 80%.

Substrate moisture content: < 5% (weight percent).

Compressive strength of the substrate: min. 25 N/mm².

Tensile strength of the substrate: min. 1.5 N/mm².

Dew point before and during application and during curing: The temperature of the substrate must be +3°C higher than the dew point.

Provide sufficient ventilation after application to obtain good curing of the product.

Tools & complementary products

- Mixer with spindle.
- Rubber squeegee, brush or paint roller (12 mm hair and suitable for synthetic resin) for primer applications.
- Trowel, tooth comb or rake for scraping / levelling applications.
- Trowel and spatula for mortar applications.
- Clean mixing containers.
- Masking tape.

Order separately:

- EUCOGRAN 0.4-0.8 (if broadcasting of primer is desired)
- EUCOGRAN 0.1-0.3 (for egaliser or levelling layer)

- EUCOGRAN M (for mortar)
- EUCOSOLV MEK (for tool cleaning)

Preparations

The surface to be treated must be dry and free of standing water (moisture content <5%). Make cracks, joints and other parts showing water leaks completely water and leak proof with the EUCOCHEM BV EUCOINJECT injection resins. Existing screeds and concrete surfaces must be at least 28 days old. Remove loose, poorly adhering or insufficiently load-bearing parts mechanically. Then brush well and remove dust with an industrial vacuum cleaner.

Repair the areas that are insufficiently flat with an egalising / levelling layer or mortar complementary to the system to be installed. (EUCOBIND EP binder + fillers). The surface must be free of dirt, grease, release agent, grease, old, demoulding oil, cement skin, old paint layers that do not adhere well, coatings, synthetic resin layers, adhesives, bitumen, ... or other matters that can adversely influence the adhesion. The substrate must therefore also be mechanically pretreated. For example by bullet blasting, sandblasting or by sanding the surface. When applying EUCOBIND EP on existing old coatings, always sufficiently grind, degrease, make dust-free and clean the surface. Always use clean equipment and clean mixing containers.

Preparation of the product

First mix both components mechanically for 2 minutes with a mixer and spindle. Then add the B component completely to the A component and mix again for at least 2 minutes until a homogeneous mixture is obtained. The mixing operations are carried out with a mixer at low speed (max. 300 rpm) in order not to include air in the resin. This avoids the formation of air bubbles in the mixture. After mixing, the product is ready for use as a primer or as a binding agent for the preparation of a scraping compound, a levelling mortar or a repair mortar.

Preparing a scraping- or levelling layer:

Gradually add EUCOGRAN 0.1- 0.3 to the prepared EUCOBIND EP resin mixture and at the same mix until a homogeneous, lump-free mass is obtained. After this, the product is ready for use.

Mixing ratio: 1/1 to max. 1/1,5 (weight) - Resin / Filler.

Preparing a mortar:

Gradually add EUCOGRAN M to the prepared EUCOBIND EP resin mixture and at the same mix (with mixer with planetary spindle) until a homogeneous, lump-free mass is obtained. After this, the product is ready for use.

Mixing ratio: 1/7 to max. 1/10 (weight) - Resin / Filler.

Application of the product

Process the product within approx. 30 minutes as a primer and within approx. 45 minutes as an egalising / levelling layer or mortar (times measured at 20°C°)

AS A PRIMER:

Application with brush or paint roller:

Pour EUCOBIND EP onto the surface to be treated and spread evenly with the paint roller or brush until a completely closed film is obtained.

Application with rubber squeegee + paint roller:

Pour EUCOBIND EP onto the surface to be treated and spread evenly with the rubber squeegee until a completely closed film is obtained. Application with a rubber squeegee on smooth, even surfaces is automatically followed by subsequent rolling with a 50 cm wide paint roller. Provide full coverage of at least 300 to 400 gr/m² (depending on the porosity and the roughness of the substrate).

For applications on highly absorbent surfaces, you can opt to apply a second layer of EUCOBIND EP. And this within a time span of 12 to 24 hours (at 20°C) after applying the first layer.

To further improve the adhesion between primer and synthetic resin system to be applied afterwards, EUCOBIND EP can be optionally broadcasted with dried quartz.

AS A SCRAPING- OR LEVELLING LAYER:

Pour the mixture onto the already primed surface to be treated. Spread evenly with trowel, tooth comb or rake. Provide coverage of 1,5 to 1,6 kg mixture / mm Roll with a spiked roller to eliminate air bubbles.

AS A MORTAR:

Pour the mixture on to the area to be repaired onto the still wet primer. (Wet in wet method). Spread with a trowel and polish with a flat trowel or with a butterfly machine.

Finishing

24 hours (at 20°C) after applying EUCOBIND EP the next layer of the synthetic resin system can be applied.

Cleaning of the tools

Clean the used tools with EUCOSOLV MEK. Cured product residue must be removed mechanically.

MAINTENANCE AFTER APPLICATION

Does not apply.

TECHNICAL DATA

Consumption

As a primer:

300 to 400 gr/m²/layer depending on the porosity, the chosen system and the roughness of the substrate.

As levelling mass or egalising layer:

1,5 to 1,6 kg/m²/mm

As a mortar:

2 kg/m²/mm (= 2 kg/dm³)

Technical data & reaction times

Property	Value
Basic raw materials	Epoxy resins - solvent-free Comp A: Modified epoxy resin Comp B: Polyamine hardener
Composition	2 components (fillers to be ordered separately)
Mixing ratio resin and hardener	A: B = 2 : 1 (in weight)
Tensile strength	> 2 mPa
Dry matter content	100%
Viscosity (20°C)	A = 1060 mPa.s B = 150 mPa.s A+B = 485 mPa.s
Heat resistance	-60°C.
Impact resistance	>10 Nm
Wear resistance	AR 0.5

Hardness (ShoreD)	75
Density	Comp A: 1,1 kg/dm ³ Comp B: 1,03 kg/dm ³ Mixture A A+B: As a primer or binder: 1,08 kg/dm ³ A+B+filler: As an egaliser and levelling layer: 1,5 to 1,6 kg/dm ³ A+B+filler: As a mortar: 2 kg/dm ³
Mechanical resistance mortar after 28 days	Flexural strength 28 MPa Compressive strength 66 MPa
Aspect - colour	Glossy - amber transparent

Processing time:

As a primer: 30 min. (at +20°C)

As an egalising, levelling layer: 45 min. (At +20°C)

As a mortar: 45 min. (at +20°C)

Dry: After 8 hours (at +20°C)

Re-coat time: After 24 hours (at +20°C)

Pedestrian traffic: After 24 hours (at +20°C)

Mechanical and chemical resistance: (Attention: water is also a chemical product) After 7 days (at +20°C)

Chemical resistances

Good chemical resistance, also against organic chemical compounds (hydrocarbons). When used in applications with chemically contaminated water, it is advisable to consult your EUCCHEM BV representative.

Additional documentation & referrals

Always consult all technical data sheets and material safety data sheets of the products to be used. Always work with clean tools in good condition.

APPEARANCE - COMPOSITION - PACKAGING

EUCOBIND EP is available as follows:

15 kg set:

Comp. A: 10 kg

Comp. B: 5 kg

24 kg set:

Comp. A: 16 kg

Comp. B: 8 kg

600 kg set:

Comp. A: 2 x 200 kg drum

Comp. B: 1 x 200 kg drum

EUCOBIND EP can be stored in its original, unopened packaging and in a dry room. Do not store in direct sunlight and between +10°C and +30°C. It has a shelf life of 12 months after production date, provided it is stored under the conditions described above.

ADDITIONAL COMMENTS

Expansion joints must be included in the system. Contraction joints, cracks and joints can be overcoated, if treated correctly, provided they are not active and do not / no longer follow the movements / settlement of the building. For special applications it is advisable to consult your EUCCHEM BV representative.

SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at [op www.eucochem.com](http://op.www.eucochem.com). When in doubt, contact our technical service.

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