

EUCOCOAT EP

2 COMPONENT, EPOXY COATING AND TOP COAT

FIELD OF APPLICATION

EUCOCOAT EP is a two component, high build, highly UV resistant epoxy coating. This coating is also extremely suitable as a top coat on vapour-tight epoxy, cement and polyaspartic cast floors.

- As a coating or as a top coat.
- Underground and above parking decks.
- Garages, workshops, warehouses, storage areas for dangerous goods, emergency water reservoirs, basements and underground structures, food and pharmaceutical industry, public buildings, museums, schools, etc.
- Industrial and public floors to be coated.
- etc...

BENEFITS & FEATURES

- Can be applied indoors
- Can be applied horizontally
- Can be applied manually or sprayable
- Very high UV resistance
- High chemical resistance
- Liquid proof
- Glossy
- Transparent or according to an extensive colour palette
- Limited layer thickness - good coverage
- High abrasion resistance

APPLICATION

Application conditions

EUCOCOAT 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 +10°C and +30°C.

Relative ambient humidity: max. 85%. 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.

Moving joints and cracks (expansion joints, settlement joints, ...) must be repeated in the system. Contraction joints, cracks and joints can be over-coated, if treated correctly, provided they are not active and do not / no longer follow the movements / settlement of the building.

Tools & complementary products

- Mixer with spindle and clean mixing containers.
- Brush or paint roller (12 mm hair and suitable for synthetic resin),
- Clean mixing containers.
- Masking tape.

Order separately:

- EUCOGRAN 0,4-0,8 (if broadcasting of the first layer to obtain a non-slip effect is desired).

Preparations

The surface to be treated must be dry (moisture content <5%). Make cracks, fissures, 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 7 days old.

Remove loose, poorly adhering or insufficiently load-bearing parts mechanically. Repair the areas that are not sufficiently flat.

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 grinding the surface. Etch or grind synthetic resin floors older than 7 days.

Degrease tiles well, grind with a diamond disc, remove dust and apply a suitable primer + equaliser or levelling layer:

You can make seamless resin skirting boards with EUCOPRIM EP (primer) and EUCOREP EP (skirting and repair mortar).

Before applying the coating or top coat, brush all surfaces well and remove dust with an industrial vacuum cleaner.

Always use clean equipment and clean mixing containers.

Preparation of the product

Add the entire amount of hardener component (B) to the resin component (A) and mix mechanically (300 rpm) until both components are homogeneous. The coating is now ready to use.

Application of the product

Apply EUCOCOAT EP within 45 minutes (at 20°C) after mixing the product.

As a floor coating or top layer - Smooth

Apply a first layer of EUCOCOAT EP onto the surface with a brush or suitable paint roller, always working crosswise.

12 to 24 hours after applying the first coat, a second coat must be applied. Always work crosswise now too.

As a floor coating or top coat - anti-slip finish

Apply a first layer of EUCOCOAT EP onto the surface with a brush or suitable paint roller, always working crosswise.

An anti-slip finish can be obtained by spreading dry granulate immediately after applying the EUCOCOAT EP into this first still wet layer.

12 to 24 hours after applying the first layer, vacuum the surface industrially to remove the loose granulate. After this, the second layer must be applied. Always work crosswise now too.

Finishing

Does not apply.

Cleaning of the tools

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

MAINTENANCE AFTER APPLICATION

For this we refer to the Brochure "Synthetic resin floors - cleaning and maintenance".

TECHNICAL DATA

Consumption

As a top coat or floor coating - smooth

First layer:

+/- 300g/m²

(Depending on the roughness and porosity of the substrate).

Second layer:

+/- 300g/m²

As a top coat or floor coating - anti-slip

First layer:

+/- 300g/m²

(Depending on the roughness and porosity of the substrate).

+ broadcasting granulate (order separately)

Second layer:

+/- 500g/m²

(Depending on the degree of anti-slip, so the roughness of the surface)

Technical data & reaction times

Property	Value
Basic raw materials	Comp A: Modified epoxy resin with filler and colour paste Comp B: Polyamine hardener
Density	1.5 kg/dm ³
Pressure resistance	> 24 N/mm ² .
Flexural strength	> 15 N/mm ² .
Tensile strength	> 7 N/mm ² .
E modulus	2400 N/mm ² .
Water absorption:	0.2%
Fire rating	Class 2
Electrical resistance	10 ¹³ Ohm
Dry matter content	>70%
Water permeability	W<0.1 kg/m ² . h ^{0.5}
Heat resistance	60°C continuously
Layer thickness	+/- 400 µm
Wear resistance (Taber)	<3600 mg (H22 -700 tr-1 kg)
Tensile strength	> 2.0 N/mm ² .
Impact resistance (DIN EN ISO 6272)	Class I

Pot life after mixing: 45 minutes (at 20°C)

Pedestrian traffic: After 24uur

Full mechanical load: After 4 days.

Full chemical resistance: After 7 days. (Attention: water is also a chemical product)

Full curing: after 7 days.

Times measured at +20°C. Lower temperatures extend and higher temperatures shorten the curing time.

Chemical resistances

Good chemical resistance against alkalis, petroleum derivatives, battery acid, diluted organic acids, salts and solutions. When used in applications with chemically products, 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

EUCCOAT EP is available as follows:

COLOURED VERSION:

5.2 kg set:

Comp A: 4.25 kg

Comp B: 0.95 kg

12.5 kg set:

Comp A: 10.23 kg

Comp B: 2.27 kg

TRANSPARENT VERSION:

Set of 5.03 kg.

Set of 12,08 kg.

EUCCOAT EP can be stored in its original, unopened packaging and in a dry space. Do not store in direct sunlight and between +5°C and +30°C. It has a shelf life of 24 months after production date, provided it is stored under the conditions described above.

ADDITIONAL COMMENTS

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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