

EUCOCOAT EP ECO S

WATER-BASED AND VAPOUR-OPEN EPOXY COATING AND TOPCOAT - SATIN

FIELD OF APPLICATION

EUCOCOAT EP ECO (Satin) is a two-component, water-based and damp-open epoxy coating. This coating can be placed both horizontally and vertically.

EUCOCOAT EP ECO S is also extremely suitable as a top layer on vapour-open and 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 and walls to be coated.
- Walls and pillars
- Basements and underground structures
- etc...

BENEFITS & FEATURES

- Can be used indoors and outdoors
- Can be used horizontally and vertically
- Can be applied manually or sprayable
- Vapour permeable - can be applied on slightly damp substrates. (< 10%)
- EUCOCHEM - ECO system: Water-based - solvent-free
- Very high UV resistance
- High chemical resistance
- Liquid proof
- Satin gloss
- Transparent or according to an extensive colour palette
- Limited layer thickness - good coverage
- High abrasion resistance

APPLICATION

Application conditions

EUCOCOAT EP ECO S 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: < 10% (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 or slightly damp (moisture content <10%) and must be free of free-standing water. 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 with:

EUCOREP EP FLOOR mortar.

EUCOPRIM EP ECO + EUCOGRAN 0.1-0.3 egaliser / levelling layer (1/1 ratio).

EUCOREP EP PASTE epoxy paste.

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.

Degrease tiles well, grind with a diamond disc, remove dust and apply a suitable primer + egaliser 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

Stir the hardener component (B) homogeneously before use. Add the full amount of 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 ECO S within 30 minutes (at 20°C) after mixing the product.

As a floor-, wall coating or top coat - smooth:

Apply a first layer of EUCOCOAT EP ECO S on the surface with a brush or suitable paint roller, always working crosswise. 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 ECO S on 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 ECO S in this first still wet layer.

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

SMOOTH FINISH:

Optionally, an extra matt, structured top layer can be applied. For this, use EUCOTOP PU STRUCTURE. Apply only 1 layer of this. This is to preserve the vapour permeability of the system. See also the technical data sheet of EUCOTOP PU STRUCTURE.

ANTI SLIP FINISH:

Does not apply.

Cleaning of the tools

Clean the used equipment with pure water. 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, floor or wall 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

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: Epoxy resin Comp B: Modified Polyamine hardener with filler and colour paste Solvent-free / water-based system
Density	1.4 kg/dm ³
Dry matter content	>70%
Viscosity at 20°C	2500 mPa.s (+/- 500)
Heat resistance	60°C continuously
Layer thickness	+/- 300 µm per 2 layers
Wear resistance (Taber)	<30 mg (CS10-1000 tr-1kg)
Tensile strength	B 1,5
Impact resistance (DIN EN ISO 6272)	>10 Nm
Colour	RAL or NCS - on demand

Pot life after mixing: 30 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 EUCOCHEM 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

EUCOCOAT EP ECO S is available as follows:

TRANSPARENT VERSION:

5.46 kg set:

Comp A: 1 kg

Comp B: 4.46 kg

10,92 kg set:

Comp A: 2 kg

Comp B: 8,92 kg

COLORED VERSION:

6 kg set :

Comp A: 1 kg

Comp B: 5 kg

12 kg set:

Comp A: 2 kg

Comp B: 10 kg

EUCOCOAT EP ECO S can be stored in its original, unopened packaging and in a dry room. Do not store in direct sunlight and between +5°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

For special applications it is advisable to consult your EUCOCHEM 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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