EUCOCOAT EP HCR

2 COMPONENT, HIGHLY CHEMICALLY RESISTANT EPOXY COATING - EPOXY ADHESIVE - AS A FILLER FOR STATIC THIN JOINTS OR SAW CUTS

FIELD OF APPLICATION

EUCOCOAT EP HCR is a two component, highly chemically resistant epoxy-coating - adhesive - filler.

- As a coating where high chemical resistance is required.
- Floors, emergency basins, walls, ...
- Garages, workshops, warehouses, storage areas for dangerous goods, emergency water reservoirs, basements and underground structures, food and pharmaceutical industry, etc.
- Can be used as an adhesive bridge to bond freshly poured concrete onto existing concrete. (Contact EUCOCHEM BV for this)
- As an epoxy adhesive for concrete, brick, natural stone (Contact EUCOCHEM BV for this)
- As a filler for small static joints and saw cuts. (Contact EUCOCHEM BV for this)
- etc...

BENEFITS & FEATURES

- Can be used indoors and outdoors
- Can be used horizontally and vertically
- Can be applied manually or sprayable
- Very high chemical resistance
- Liquid proof
- Glossy - grey (grey green after a period of time)
- Limited layer thickness - good coverage
- High abrasion resistance
- Anti-slip finish possible (broadcasting granulate to be ordered separately)

APPLICATION

Application conditions

EUCOCOAT EP HCR 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 overcoated, 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 sanding the surface. Etch or sand synthetic resin floors older than 7 days.
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

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 HCR within 25 minutes (at 20°C) after mixing the product.

As a floor-, wall coating or top coat - smooth
Apply a first layer of EUCOCOAT EP HCR onto 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 HCR 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 HCR into 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.

Bonding freshly poured concrete onto old concrete
Old concrete must be dry and clean. Spread with a rubber squeegee and finish with a paint roller. Pour the fresh concrete into the wet
coating (within 3 hours). Can be applied with airless spray equipment.

Filling saw cuts and small joints
Pour the mixed resin into the joint or saw cut with a measuring cup.

Finishing

Does not apply.

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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, 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 (order separately)
Second layer:
+/- 500g/m²
(Depending on the degree of anti-slip, so the roughness of the surface)

Bonding new freshly poured concrete onto old concrete: 400 to 500 g/m²

As an adhesive or joint filler:
1,5 kg/dm³

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/dm³
Pressure resistance	> 24 N/mm².
Flexural strength	> 10 N/mm².
Tensile strength	> 6 N/mm².
E modulus	2400 N/mm2.
Electrical resistance	10^{13} Ohm
Heat resistance	60°C continuously
Layer thickness	+/- 400 µm
Wear resistance (Taber)	<10 mg (CS10 -1000 tr-1 kg)
Adhesion onto concrete	> 2.6 N/mm2.
Impact resistance (DIN EN ISO 6272)	>10 Nm

Pot life after mixing: 45 minutes (at 20°C)
Pedestrian trafic: 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 HCR is available as follows:

COLOURED VERSION:
5.0 kg set:
Comp A: 4.12 kg
Comp B: 0.88 kg

12.5 kg set:
Comp A: 10.30 kg
Comp B: 2.20 kg

Colour grey
After application, after a period of time: grey/green

EUCOCOAT EP HCR 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 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 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. When in doubt, contact our technical service.