

EUCOCOAT EP HCR

THICK, CHEMICALLY RESISTANT EPOXYLINER - FOR DRY AND DAMP SUBSTRATES

FIELD OF APPLICATION

EUCOCOAT EP HCR XL is a two-component, manually or sprayable, hard epoxy liner for protecting and repairing various surfaces in aggressive environments. Adheres to various dry and wet substrates such as concrete, brick, metal, wood, ...

Water treatment plants, sewer renovation, shafts, inspection shafts, storage and buffer tanks, pump shafts, septic tanks, emergency basins, calamity basins, reservoirs, ...

BENEFITS & FEATURES

- Can be used on dry and damp surfaces.
- Can be used horizontally and vertically.
- Can be used outdoors and indoors.
- High adhesion.
- Hard and durable coating - high mechanical and impact resistance
- High chemical resistance.
- Entirely liquid-tight.
- Good and seamless adhesion to a previously applied layer of EUCOCOAT EP HCR XL.
- Manually or sprayed.
- Layer thickness to be applied in one go = approx. 3 to 4 mm.

APPLICATION

Application conditions

EUCOCOAT EP HCR XL 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 +35°C. Never process or allow to harden below +10°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.

Tools & complementary products

- Mixer with spindle.
- Clean mixing containers.
- Trowel and flat spatula.
- Suitable 1 component pump (sprayed application).
- EUCOSOLV MEK

Preparations

The surface to be treated can be dry or 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 28 days old.

Remove loose, poorly adhering or insufficiently load-bearing parts mechanically.

Level out the excessive level differences (> approx 3 to 5 mm) with complementary repair mortars. (Contact EUCOCHEM BV for this). 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.

Always use clean equipment and clean mixing containers. If possible, first coat metal parts that come into contact with the product with a suitable primer.

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 construction.

Preparation of the product

If desired, to mix the product more easily, both buckets (A + B) can be placed in warm water to bring the product to a higher temperature.

Add the full amount of the B-component to the A-component and mix mechanically (300 rpm) until the mixture has a homogeneous colour. (For making smaller volumes: Always use volume ratios of 2 : 1 of the A component and the B component.

Always work with cleaned tools, pumps and mixing containers. Rinse the pump with SOLVENT MEK before and after the application. Rinse the pump also regularly with SOLVENT MEK during the application.

Process EUCOCOAT EP HCR XL within 30 min. after mixing.

Application of the product

Apply a layer of approximately 3 to 4 mm with a trowel or spatula (or spray) on the prepared surface to be treated. Layer thicknesses >4mm are obtained by applying several thinner layers wet on wet on top of each other. Provide complete coverage of the surface to be treated.

Finishing

Immediately after applying EUCOCOAT EP HCR XL, the surface can be smoothed with a trowel to obtain a higher level of finish, if desired.

Cleaning of the tools

Before, but also regularly during and after the application, rinse the pump with SOLVENT MEK. Clean the used tools with SOLVENT MEK before curing EUCOCOAT EP HCR XL. Cured product residue must be removed mechanically.

MAINTENANCE AFTER APPLICATION

Does not apply.

TECHNICAL DATA

Consumption

Mixed product: layer thickness 1,35 kg/m²/mm. Apply min. 3 mm of product onto the surface.

Technical data & reaction times

Property	Value
Basic raw material	A-component: Modified epoxy resin B-component: Polyamine hardener
Density	Comp A: 1,4 kg/dm ³ Comp B: 1.3 kg/dm ³ Mixture: approx. 1.35 kg/dm ³
Mineral content	Comp A: approx. 55 Comp B: approx. 40
Viscosity spindle 7 / 50 r / 25°C	5000 – 10000 mPas
Hardness Shore D at 25°C	After 3 hours- 45- 50 After 4 hours- 70 After 24 hours- 81
Flexural strength	78 MPa
Tensile strength	3- 4 N/mm ² .
Adhesion to dry and wet substrate	Exceeds the cohesion of the material that makes up the substrate.
Heat resistance	60°C continuously
Layer thickness	3 to 4 mm
Curing	Shrink-free.
Colour	Grey Orange / red on demand

Processing time: 30 min.

Dust free: After 2 hours

Full mechanical load: after 24 hours

Full chemical resistance: Sewer: after 24 hours, chemical resistant-liner: after 7 days

*Values measured at 20°C

Chemical resistances

Excellent chemical resistance against alkalis, petroleum derivatives, battery acid, diluted organic acids, salts and solutions.

For more information, please contact EUCCHEM.

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 XL is available as follows:

24 kg set:

Comp A: 16 kg

Comp B: 8 kg

EUCOCOAT EP HCR XL 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. Shelf life 24 months after production date if kept under the above mentioned conditions.

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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