

EUCOCOAT PU ECO

2 COMPONENT WATER-BASED POLYURETHANE COATING

FIELD OF APPLICATION

EUCOCOAT PU ECO is a 2-component, water-based polyurethane coating for painting walls, floors with an average standard load and as a topcoat for self-levelling resin floors.

- Protection and decoration of floors and walls.
- As a topcoat for self-levelling resin floors consisting of epoxy, polyurethane and polyaspartic.
- Renovation of existing coatings and still well-adhering paint, top- and resin layers consisting of epoxy, polyurethane and polyaspartic.
- Coating of sound concrete floors.
- Building, industry, public buildings, parking lots, etc...

BENEFITS & FEATURES

- Environmentally friendly.
- Water-based.
- Can be applied inside and outside
- Can be applied vertically and horizontally.
- Available in matte, satin and gloss version.
- Solvent free.
- UV resistant.
- Good adhesion
- Easy to clean.
- Anti-slip finish on floors is possible.

APPLICATION

Application conditions

EUCOCOAT PU ECO must be stored between +15°C and +25°C approximately 24 hours before application. The substrate, the ambient temperature and the temperature of the equipment to be used must be between +10°C and +30°C.

Relative ambient humidity: max 80%.

Moisture content in the substrate: <4% (weight percent).

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

Provide adequate ventilation after application to ensure proper curing of the product.

Tools & complementary products

- Paint roller, brush or airless spray equipment, suitable for the use of synthetic resins.
- Clean mixing containers;
- Mixer (max. 300 rpm) with spindle.
- Paint buckets or paint tray.
- Masking tape.
- Protective plastic film.

Preparations

Clean the surface of oil, shuttering oil, cement skin, stains and other impurities that can adversely affect adhesion. Repair the surface if required, according to applicable local standards.

When applying EUCOCOAT PU ECO as a top layer on a cast floor or when overlaying existing old coatings, always sufficiently sand the surface, make it dust-free and degrease. Make sure the surface is dry.

Existing screeds and concrete surfaces must be at least 28 days old. Shot-blast the surface or treat with a diamond disc. Then make the surface perfectly dust-free again.

Blast-clean metal surfaces (SA 2,5), degrease with EUCOSOLV MEK, and immediately after complete evaporation of the solvent apply a suitable metal primer to prevent re-oxidation.

For applications on a highly absorbent surface - certainly when coating floors - the use of a primer is always recommended.

Always use clean equipment and clean mixing recipients

Preparation of the product

Pour the B component (hardener) completely into the A component (coloured resin) and mix mechanically for at least 2 minutes with a mixer and spindle (max. 300 rpm) until a homogeneous mixture is obtained. This operation is performed with a mixer at low speed so as not to include air in the resin. This avoids the formation of air bubbles in the mixture and in the coating. After mixing, the product is ready for use.

Always use clean equipment and clean mixing receptacles.

Application of the product

The product can now be applied to the surface to be treated with a paint roller (12 mm recommended), brush or with suitable airless spray equipment.

Please note, if no primer has been placed on a highly absorbent substrate before applying EUCOCOAT PU ECO, the first applied layer will function as a primer layer. So keep this in mind. This may mean that after the first layer (which then functions as a primer layer) 2 more layers have to be applied.

For overcoating floors with an intense load: Apply at least 3 coats.

Always allow for sufficient drying time between the layers. Between 12 and 48 hours depending on the ambient temperature.

Always work crosswise.

Finishing

Does not apply

Cleaning of the tools

Clean the used tools with clean water before the curing of EUCOCOAT PU ECO. Cured products residues must be removed mechanically

MAINTENANCE AFTER APPLICATION

Synthetic resin floors.

These require regular maintenance to maintain their initial aesthetic appearance. First remove the loose parts by brushing or vacuuming. Use a mild detergent (after dilution max pH8) and scrub the surface manually with a soft scouring brush or machine with flexible nylon rotating brushes (approx. 150 rpm). Then remove the dirty suds and rinse with clean water. For heavily soiled surfaces such as tire traces, please contact EUCOCHEM BV.

Walls:

First remove the loose parts by brushing or vacuuming. Use a mild detergent (after dilution max pH8) and scrub the surface manually with a soft scouring brush or use a soft sponge on a surface that is not too dirty. Rinse with clean water and dry the surface with a soft lint-free cloth.

TECHNICAL DATA

Consumption

150 gr/m²/layer - depends on the roughness and porosity of the substrate.

Technical data & reaction times

Property	Value
Basic raw materials	Polyurethane, water-based.
Density	Resin (comp A): 1,40 kg/dm ³ (+/- 0.05 depending on the colour) Hardener (comp B): 1.12 kg/dm ³ Mixture: 1,37 kg/dm ³ (+/- 0.05 depending on the colour)
Mixing ratio	Weight: 7 / 3
Dry matter:	Weight: 57 % (+/- 2%) Volume: 41 % (+/- 2%)
Flash point	NA
Appearance	Aspect: Matt / Satin / Gloss Colour: On request - RAL
VOC / COV:	Accord. to 2004/42/CE Limit imposed by the EC for this type of product: 140/l VOC (2010). The mixed product contains: 90 g/l VOC.
Bond strength	> 2 mPa

Processing time after mixing:

Approx. 90 minutes (at 15°C)

Approx. 60 minutes (at 20°C)

Approx. 45 minutes (at 30°C)

Trafficable

Approx. 36 hours (at 15°C)

Approx. 24 hours (at 20°C)

Approx. 18 hours (at 30°C)

Mechanical load After 48 hours

Full chemical resistance After 7 days (Note: water is also a chemical)

Full cure: After 7 days:

* other ambient temperatures as well as relative humidity influence the above data.

Chemical resistances

Good chemical resistance When used in contact with chemical products, it is advisable to consult your EUCCHEM BV representative.

Additional documentation & referrals

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

APPEARANCE - COMPOSITION - PACKAGING

EUCCOAT PU ECO consists of 2 components, a resin (comp A) and a hardener (comp B) and is available as follows:

Set 5 kg

Comp. A = 3.5 kg

Comp. B = 1.5 kg

Set 10 kg

Comp. A = 7 kg

Comp. B = 3 kg

Colours: on request (RAL)

EUCCOAT PU ECO is to be stored in a dry space. Do not store in direct sunlight and between +5°C and +30°C.

Shelf life 12 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 www.eucochem.com. When in doubt, contact our technical service.

All information in this technical data sheet is provided in good faith and without any guarantees. The choice of a product for any application by the buyer or applicator, the processing of the products, the preparations, the finishing, the use of the right equipment to apply the products and all this in the broadest sense, are entirely beyond our control and are therefore entirely the responsibility of the buyer or applicator. Therefore, EUCCHEM bv cannot be held responsible on the basis of what is mentioned above. Should EUCCHEM bv nevertheless be held responsible for damage incurred, the claim will always be limited to the value of the necessary EUCCHEM bv products to be delivered in order to carry out a minimal repair. EUCCHEM bv strives to deliver products of consistent, good quality. All values on the technical data sheet are average values and are the result of tests performed under laboratory conditions. Values that are measured in jobsite conditions and the like may deviate from the stated values. This is because the environmental conditions, the application and the manner of processing our products are also outside our control. Please note that you should not add any products other than those indicated in our technical documentation. Only use EUCCHEM bv products for a system under construction. If you combine products from different suppliers or brands, the warranty expires irrevocably. When applying the EUCCHEM bv products it is necessary to draw up a construction site log and to fill it in on a regular basis. EUCCHEM bv can consult the construction site log at any time and / or request a copy to check whether the products and systems have been correctly installed or installed in accordance with the regulations set by EUCCHEM bv. We also refer to our general terms and conditions in case of dispute. This version of the technical data sheet replaces all previous versions. Version 1.0 Date: 14 October 2021 11:03 am