EPODIT

2K epoxy coating EP-345

Art. 345 / 3 / 0223

VFL
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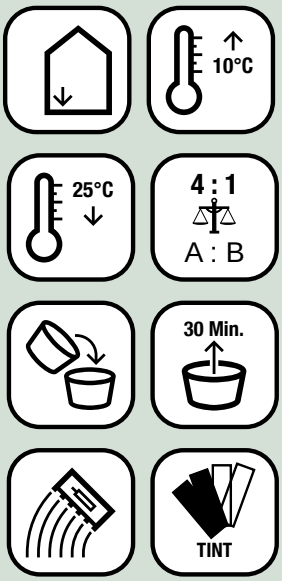

Properties

EPODIT is a solvent-free and self-leveling 2-component coating based on epoxy resin. Pore-free and liquid-tight coatings can be realized, which have to meet the highest demands on hygiene and resistance to a variety of chemicals, petrol, mineral oils, diluted acids and alkalis, etc. EPODIT produces tough elastic coatings with high impact, shock and abrasion resistance and layer thicknesses from 1500 µm are achieved.

Field of application

For the coating of highly durable surfaces in industrial plants, garages, damp rooms, laboratories, agricultural operations (stables), etc. and wherever a jointless coating system is desired. EPODIT 2K epoxy coating EP-345 in combination with an appropriate primer is also suitable for heavy corrosion protection in humid and aggressive atmospheres.

Pretreatment

For new floors, the drying and setting times must be observed according to the floor manufacturer's instructions. The substrate must be freed from all adhesion-reducing layers and impurities. For example, cement residue, sintered layers, liquid foils (curing), etc. must be completely removed by blasting, grinding (with NEUTRASOL cement floor cleaner) or other suitable means. Remove old coats if possible or prepare them accordingly for medium loads. Any cracks are milled out and filled with a suitable mortar compound (e.g. mixture EPOTEX / quartz). In the case of problematic renovations and very heavy loads, the floor should preferably be sanded or sandblasted. In order to obtain lasting protection, substrates with rising damp must be renovated as a matter of priority.

Processing

During application, a minimum substrate temperature of 10 °C, a maximum floor moisture of 5 % and a maximum air humidity of 75 % must be observed, otherwise film formation may be disturbed, resulting in poor drying, reduced adhesion, lower gloss, poor flow or poorer resistance. At temperatures above 25 °C, care must be taken to ensure that the application is carried out at a constant or decreasing temperature, otherwise there is a risk of bubble formation.

When mixing components A and B together, ensure that they are thoroughly mixed. Component B (hardener) is slowly added to component A (stock solution) while the stirrer is running at low speed. The whole mixture is then repotted and stirred well again. For increased slip resistance, quartz sand can be sprinkled into the liquid EPODIT coating CREASTONE. Remove excess quartz after drying out and apply an additional 2-component coating such as EPOLUX or DUROPON to the floor.

System structure

Primer

Depending on the substrate, the following primers are used: DUROPUR 1K-PUR bonding agent FH-1000, EPOXIM 2K epoxy sealer, EPOSAN 2K epoxy moisture barrier or EPOTEX 2K epoxy oil and moisture barrier.

Coating system

1 x EPODIT 2K epoxy coating EP-345

CREASTONE quartz sand (0,1–0,5mm) is added to the mixture up to 2 times the weight ratio (1 : 2) depending on the application.

Sealing

Knuchel Farben
High quality - Top finish

For increased slip resistance (CREASAFE) or to protect against flaking (CREAFLOC), an additional transparent final sealant with DUROPUR or DUROFIS is recommended.

Drying

- Dust dry after about 8 hours
- Walkable and paintable within 12–24 hours
- Fully dried after about 36 hours
- Chemical resistance and full load after approx. 7 days
  (depending on the temperature, application quantity and air circulation)

Dilution

Dilution is not necessary. If nevertheless necessary, dilute with MEK thinner.

Extensiveness

In case of fine subsoil conditions (e.g. mono concrete) the material requirement is approx. 1,5–2 kg per m² (without addition of CREASTONE quartz sand). For shot–blasted or milled surfaces, 2–3 kg per m² must be expected. To achieve higher layer thicknesses, the addition of CREASTONE quartz sand is recommended for such surfaces.

Mixing ratio

4 parts by weight component A and 1 part by weight component B (4 : 1).

Pot life

After mixing the A and B components, EPODIT can be processed for about 30 minutes at 20 °C. Finished mixed material must be emptied on the surface to be treated within minutes to prevent an accelerated reaction (heat development) in the boiler. Only mixing units which can be processed within a short time should be used. Mixed material that becomes musty in the processing phase may no longer be used. Mixed residual inks must never be stored in a closed container until they have completely hardened. The product continues to react and will put the container under pressure and may cause it to burst.

Application

Pointed tooth trowel (6 x 6mm).

Cleaning

Clean tools immediately after use with epoxy, universal or cleaning thinner. Cured material can only be removed mechanically.

Delivery form

Packages (including hardener) of 10, 5 and 1 kg.

Shelf life

Components A: EPODIT can be stored for at least 12 months in the well closed original container. Store in a cool and dry place.

Components B: The hardener can be stored for at least 12 months in well-sealed original containers. Store in a cool but frost-free place.

Elasticity

> 45 N/mm² (DIN EN 196/1)

Viscosity

Components A: 1500–2000 mPa.s / Components B: 50–150 mPa.s
Components A + B: 1’500–2’000 mPa.s

Density

Components A: 1,60 ± 0,05 g/cm³ / Components B: 1,02 ± 0,05 g/cm³
Components A + B: 1,42 ± 0,05 g/cm³

Solid content

Components A: 100 % / Components B: 100 %
Components A + B: 100 %

Binder base

Components A: Modified epoxy resins
Components B: Amine hardeners (article 906)

Gloss level

Gloss

Water absorption < 0,2 weight percent (DIN 53495)

Colours The entire colour range (RAL, NCS, etc.) is available under the BRILA-TINT industrial tinting system. For technical reasons, slight colour deviations are possible.
Epoxy resin coatings are subject to slight changes in colour tone, which can become visible in light colours.
Light colours are not recommended for garage floors due to possible discolouration by tyres or tyre marks.

Registration Components A: CPID 279561
Components B: CPID 277700 (article 906)

Classification For information on chemical properties and hazards as well as regulations regarding transport, processing, storage, disposal, etc., please refer to the safety data sheet.

Note This leaflet is only intended as a reference and non-binding advice. The processing must be adapted to the corresponding conditions. In special cases we recommend to contact our technical service. However, all data and information on the suitability and application of the delivered products do not exempt the processor from carrying out his own tests and trials. A claim for damages for omitted, incomplete or incorrect information is excluded. This applies in particular if hardeners and other products are used in the paint build-up system.
Furthermore, we refer to our General Terms and Conditions (GTC) on our homepage.