



Technical Information

Two-Part Epoxy Resin

Fast-reacting two part epoxy resin, afterglowing

Consisting of hardener and binder + pigment in a separate can (no hazardous substance as defined by the ordinance on hazardous substances)

Product description

Uses

- Production of photoluminescent floor markings for security guidance systems

Material properties

- Good curing even at 10 °C
- Weather resistant
- Wet resistance
- Good chemical resistance
- Low emissions
- Suitable for all mineral substrates
- Low yellowing

Material basis

- Low viscosity two-part epoxy resin with luminous pigments

Packaging

- 1,0 kg
- 2,5 kg
- 5,0 kg

Color

- Yellowish - green

Processing

Suitable substrates

- All mineral substrates
- The substrate must be stable, solid, free from loose parts, dust, oils

Storage

- Cool, dry, frost-free
- Shelf life at least 1 year in the originally closed container
- At lower temperatures, store the material at 20°C before processing

Technical data

- Density approx. 1,1 g/cm³
- Dry layer thickness approx. 95 µm /100 g/m²
- Abrasion resistance 47 mg CS 10/1000/1000
- Shore D hardness approx. 80
- Consumption approx. 650 g/m² at nominal luminance
- Temperature resistance (dry heat)
Permanent +50°C
Short-term max. 7 d +80°C
Short-term max. 12h +100°C

- The surface tensile strength of the substrate must average 1,5 N/mm². The smallest individual value must not fall below 1 N/mm².
- The substrates must have reached their compensation moisture content:

Concrete and cement screed max. 4 % by weight
Anhydrite screed max. 0,3 % by weight
Magnesite screed 2 - 4 % by weight
Stone wood screed 4 - 8 % by weight

- Avoid rising damp, with anhydrite and magnesite screed sealing against the ground is mandatory

Substrate preparation

- Prepare the substrate with suitable measures such as shot blasting or milling in such a way that it meets the listed requirements.
- Fill cracks and gaps in the substrate with suitable mortar flush with the surface

Preparation

1. Add the pigment to the base and stir in with an agitator until there are no lumps.
2. Add hardener to the base
3. Mix intensively with a slow-running stirrer (max. 300 rpm)
4. Decant into another container and mix thoroughly again

Mixing ratio (parts by weight)

Base : Hardener
3 : 1
+ plus pigment

Workability period (Pot life)

Approx 25 minutes at 20°C and 60% relative humidity. Higher temperatures shorten, lower die pot life.

Application process

Depending on the application, use a rubber squeegee, medium-pile roller or smoothing trowel.

Coating structure

1. Base coat

Pour the mixed material onto the surface and spread evenly with the rubber squeegee. Any puddles that form can be reworked with a medium-pile roller. Sand off fresh primer as required.

For anti-slip coatings that are applied with a roller and for mortar coverings with scattered quartz.

For self-levelling coatings that are applied using the spatula method, sand with mixed quartz.

The primer that has not been sanded must be coated within 8 – 24 hours.

Processing temperature

- Material, circulation air and substrate temperature min. 10 °C, max. 30 °C.
- The relative humidity must not exceed 80%.
- The substrate temperature should always be at least 3 °C above the dew point temperature.

Dry season

At 20 °C and 60 % relative humidity

- Can be walked on after approx. 12 h
- Mechanically resilient after approx. 3 days
- Fully hardened after approx. 7 days

Correspondingly longer at low temperatures

Protect applied material at least 24 h from moisture, otherwise surface defects and reduced adhesion may occur

Tool cleaning

Clean with a suitable thinner (for example Sika Thinner C) immediately after use and in the event of longer breaks in work.

Hints

Warnings and safety advice (status at the time of printing)

- Product intended for commercial processing only

Binder:

- Flammable
- Irritating to eyes and skin.
Sensitization by skin contact possible.
- Keep out of the reach of children.
- Keep away from sources of ignition. No smoking.
- Do not breathe gas/fume/vapour/spray
- Avoid contact with eyes.
- After contact with skin, wash immediately with plenty of soap and water.
- Do not allow to enter drains/water and soil.
- Contains epoxy compounds.
- Note manufacturer's instructions (in the safety data sheet)

Hardener:

- Harmful by inhalation
- Ingestion and skin contact causes chemical burns
- May cause sensitization by skin contact.
- Keep locked up and out of reach of children.

In case of contact with eyes, rinse immediately with plenty of water and consult doctor.

- Wear suitable protective clothing, protective gloves and safety goggles/face protection when working
- In the event of an accident or if you feel unwell, seek medical advice immediately (show the container label if possible)
- Use only in well-ventilated areas.

Transport

See safety data sheets

Disposal

Packaging that contains residues of dangerous substances or is contaminated with dangerous substances, as well as packaging that has not been completely emptied, must be disposed of properly and harmlessly like the product.

Material leftovers: Allow the base compound to harden with hardener and dispose of as paint waste.

Binder:

Liquid materials according to the waste code 080111* (waste paint and varnish containing organic solvents or other dangerous substances).

Hardener:

Liquid materials according to the waste code 080111* (waste paint and varnish containing organic solvents or other dangerous substances).

GHS code: RE 30

Details:

See safety data sheets.