



Konudur 170 TR

Thermo-reactive epoxy resin for CIPP liner systems

Product properties

- Low-viscosity, two-component epoxy resin
- Warm-hardening epoxy resin
- Light-blue pigmentation
- Long application time
- High strength by warm curing
- Short curing times caused by warm curing
- Good adhesion on concrete, brick and ceramic
- Can be applied to dry and moist mineral or metallic substrates

Areas of Application

- Impregnation and fulling of polyester needle felt tubes for CIPP liner systems
- No-dig rehabilitation of defective sewer pipes and ducts
- Rehabilitation methods for underground sewer pipes and ducts
- REACh-assessed exposure scenarios: long-term water contact, periodical inhalation, application

Application

Substrate preparation

See data sheet "General Application advice for CIPP liner systems".

Mixing

See data sheet "General Application advice for CIPP liner systems". Konudur 170 TR is made up of a base (comp. A) and a hardener (comp. B). the two components have to be carefully mixed to an uniform consistence using a slow-running mechanical stirrer or a suitable static mixer. Mixing by hand and mixing of partial quantities is not allowed.

Mixing ratio

See the table "Technical data". The base and hardener component are supplied in packs containing proportionate amounts. Where the components are supplied in drums, the settings on the mixing plant must ensure the correct mixing ratio.

Application

See data sheet "General Application advice for CIPP liner systems".

Curing / Release

See data sheet "General Application advice for CIPP liner systems".

For curing / release times see also the table "Technical data". Curing only by warm-hardening and with a minimum temperature of +70 °C.

General information

The stated times are shortened by high temperatures and extended by low temperatures. A 10 K temperature change doubles or halves the stated times. See also the data sheet "General Application advice for CIPP liner systems".

Safety advice

Observe the hazard notices and safety advice on the labels and safety data sheets.

GICODE: RE1



Technical data for Konudur 170 TR

| Characteristic | Unit | Value* | Comments |
|--|---------|---------------|---------------------------------|
| Mixing ratio | p.b.w. | 100 : 42 | component A : component B |
| | p.b.v. | 100 : 45 | |
| Specific gravity | kg / l | approx. 1,25 | component A |
| | | approx. 1,16 | component B |
| | | approx. 1,22 | mixture |
| Application conditions**** | °C | +10 to +30 | air and substrate temperature |
| | | +15 to +20 | material temperature |
| | | +80 / +90 | min. / max. heating temperature |
| Application time (30 kg) | minutes | approx. 90 | |
| Viscosity | mPas•s | approx. 4,500 | component A |
| | | approx. 600 | component B |
| Minimum curing time of the impregnated polyester needle felt (3 mm) before positioning pressure can be removed** | hours | approx. 4 | at +80 °C heating temperature |
| | | approx. 3 | at +90 °C heating temperature |
| E-Module*** | MPa | approx. 3,900 | DIN EN ISO 178 |
| Bending tensile strength*** | MPa | approx. 56 | DIN EN ISO 178 |
| Compressive strength*** | MPa | approx. 87 | DIN EN ISO 604 |
| Glass transition temperature | °C | approx. 70 | |
| can take full chemical and mechanical load after | days | approx. 7 | |

Product characteristics for Konudur 170 TR

| | |
|-------------------|--|
| Equipment cleaner | MC-Reinigungsmittel U |
| Colour | light-blue |
| Form of delivery | 30 kg buckets / 200 kg drums |
| Storage | If tightly sealed, the original packs can be stored for at least one year at temperatures between +5 °C and +20 °C in dry conditions. The same requirements apply the transport. |
| Pack disposal | Empty the packs completely. |

* Unless otherwise stated, all technical data were determined at +23 °C and 50% relative air humidity

** Without any groundwater and temperature effects.

*** Values of pure resin.

**** Please observe the technical data sheet of the carrier material to be used.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed all times.

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