

Konudur 170 TR

Thermo-reactive epoxy based resin for CIPP rehabilitation



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 ADVICE

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 values & product characteristics". 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 values & product characteristics". 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".

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

| Characteristic | Unit | Value | Comments |
|---------------------------------|---------------------------|--|---|
| Mixing ratio | p.b.w. parts by volume | 100 : 42 100 : 45 | comp. A : comp. B |
| Density | kg/l | approx. 1.25 approx. 1.16 approx. 1.22 | component A component B mixture |
| Working time 30 kg container | hours | approx. 1.5 approx. 6 approx. 4 | at 15° C at 10° C material and ambient temperature at 20° C material and ambient temperature |
| Application conditions | °C | ≥ 10 ≤ 35 ≥ 15 ≤ 20 approx. 80 approx. 90 | air and substrate temperatures material temperature min. heating temperature max. heating temperature |
| Viscosity | mPa · s | approx. 4,500 approx. 600 | component A component B |
| Minimum full curing time | hours | approx. 4 approx. 3 | of the impregnated 3 mm polyester needle felt until installation pressure can be released at 80° C heating temperature at 90° C heating temperature |
| E-modulus | N/mm ² | approx. 3,900 | EN ISO 178 |
| Compressive strength | N/mm ² | approx. 87 | EN ISO 604 |
| Flexural strength | MPa | approx. 56 | EN ISO 178 |
| Resilient after (full) | days | approx. 7 | |

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

| | |
|--------------------------|--|
| Equipment cleaning agent | MC-Reinigungsmittel U |
| Colour | light blue |
| Delivery form | Pair of 30 kg containers |
| Storage | Can be stored in original sealed packages at temperatures between 5°C and 20°C in dry conditions for at least 12 months. |
| Packaging disposal | Make sure single-use containers are completely empty. |

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : RE30

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2400021402]