

Konudur 170 TL-NV

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
- Short curing times in dependency on curing temperature
- 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: periodical inhalation, application, long-term water-contact

Application

Substrate Preparation

See the data sheet "General Application Advice for CIPP Liner Systems".

Mixing

See the data sheet "General Application Advice for CIPP Liner Systems".

Konudur 170 TL-NV is made up of a base (comp. A) and a hardener (comp. B). The two components must be carefully mixed to a uniform consistence using a slow-running mechanical stirrer or a suitable static mixer. Mixing by hand and the mixing of partial quantities is not allowed.

Mixing ratio

See the „Technical Data“ table. The primary and hardener components 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 the data sheet "General Application Advice for CIPP Liner Systems".

Curing / Release

See the data sheet "General Application Advice for CIPP Liner Systems". For curing / release, see the data in the „Technical Data“ table. Curing only warm hardening and with a minimum temperature of + 60 °C (max. + 90 °C)!

General Information

The stated times are shortened by high temperatures and increased by low temperatures. A 10 K temperature change doubles or halves the stated times. That is not valid for warm hardening. 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.

GISCODE: RE1



Technical Data for Konudur 170 TL-NV

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.w. p.b.v.	100 : 42 100 : 48	component A : component B
Specific gravity	kg/l	approx. 1.25 approx. 1.09 approx. 1.20	component A component B mixture
Application conditions****	°C	+ 10 to + 30 + 15 to + 20 + 60 / + 90	air and substrate temperature material temperature min. / max. heating temperature
Viscosity	mPa·s	approx. 7,500 approx. 150	component A component B
Processing time of a 30 kg package	min	approx. 120	(at + 15 °C)
Application time of the impregnated polyester needle felt, laid out lengthwise (3 mm)	h	approx. 10 / 8	at + 10 °C / + 20 °C material and ambient temperature
Minimum curing time of the impregnated polyester needle felt (3 mm) before the positioning pressure can be removed**	h	approx. 9 approx. 5 approx. 4 approx. 3	at + 60 °C heating temperature at + 70 °C heating temperature at + 80 °C heating temperature at + 90 °C heating temperature
E-modulus***	MPa	approx. 3,600	DIN EN ISO 178
Bending tensile strength***	MPa	approx. 96	DIN EN ISO 178
Can take chemical and mechanical load after	d	approx. 7	

Product Characteristics for Konudur 170 TL-NV

Colour	light-blue
Form of Delivery	30 kg combi packs / 200 kg drums
Cleaning Agent	MC-Reinigungsmittel U (MC-Cleaner U)
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 to transport.
Pack Disposal	Make sure the pack is completely empty.

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

** with no groundwater pressure or temperature effects

*** values for 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 at all times.

Edition 07/15. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.