

Konudur 170 TR-NA

Thermo-reactive epoxy based resin for CIPP rehabilitation



PRODUCT PROPERTIES

- Low-viscosity, two-component epoxy based resin
- Light-blue pigmentation
- Long pot life, short curing times in case of warm hardening
- Good adhesion to concrete, brick and ceramic
- Free of abrasive admixtures

AREAS OF APPLICATION

- Impregnation and fulling of polyester needle felt
- Trenchless rehabilitation of defective sewer pipes and ducts
- Applicable with automatic mixing and metering equipment due to ingredients, gentle for pumps

APPLICATION ADVICE

Substrate preparation: See technical data sheet "General Application Advice for CIPP Liner Systems".

Mixing: See technical data sheet "General Application Advice for CIPP Liner Systems". The epoxy based resin Konudur 170 TR-NA consists of a base (component A) and a hardener component (component B). Both components are to be mixed carefully to a uniform and lump-free consistency, using slow-running mechanical stirrers or automatic mixing and metering equipment. Mixing by hand or mixing of partial quantities is not allowed.

Mixing ratio: See chart "Technical values & product characteristics". Konudur 170 TR-NA is supplied in buckets, containing proportionate amounts. In case of supplied barrels or containers, the correct mixing ratio is to be set and supervised regularly at the automatic mixing and metering pump. The suitability of Konudur 170 TR-NA in dependence of the pumps / equipment to be used has to be reviewed prior to the use.

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

Curing / Release: See technical data sheet "General Application Advice for CIPP Liner Systems". For curing / release see chart "Technical values & product characteristics". Curing has to be arranged only by warm water or steam. Observe a minimum temperature of +60°C and a maximum temperature of +90°C that has to be adapted to the maximum temperature resistance of the carrier material to be used.

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. This applies not for warm curing process. Observe as well technical data sheet "General Application Advice for CIPP Liner Systems".

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	parts by volume	2 : 1	comp. A : comp. B
Density	kg/l	approx. 1.25	component A
		approx. 1.25	component B
		approx. 1.25	mix
Application conditions	°C	≥ 10 ≤ 35	air and substrate temperatures
		≥ 15 ≤ 20	material temperature
		approx. 60	min. heating temperature
		approx. 90	max. heating temperature
Viscosity	mPa · s		EN ISO 3219
		approx. 2,700	component A
		approx. 570	component B
		approx. 1,300	mix
Working time	hours		
30 kg container		approx. 1.5	at 15°C material and ambient temperature
	hours		of the impregnated, polyester needle felt laid lengthwise (3 mm)
		approx. 6	at 10°C
		approx. 4	at 20°C
Minimum full curing time	hours		of the impregnated 3 mm polyester needle felt until installation pressure can be released
		approx. 3	at 90°C heating temperature
E-modulus	N/mm ²	approx. 3,800	EN ISO 178
Flexural strength	N/mm ²	≥ 60	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 (cleaner)
colour shade	bright blue
delivery form	30 kg containers 200 kg drums
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. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request.

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. [2100004337]