

# Konudur Flexfit

## Reaction resin based filler for flexible embedding of CIPP-liners to manhole walls

### Product Properties

- High-reactive filler, self-stable material properties, suitable for vertical and overhead application
- Permanently flexible and resistant to domestic waste water acc. to DIN 1986-3
- Highly chemical and mechanical resistant
- Good adhesion to dry and damp mineral based substrates
- Good adhesion to GRP substrates

### Areas of Application

- Embedding of CIPP-liner to manhole walls
- Embedding of laterals in manholes and accessible sewage constructions
- REACh-assessed exposure scenarios: periodical inhalation, application, long-term water-contact

### Application

#### Substrate preparation

The substrate has to be clean and free of any loose particles, dust, oil, grease or any waste water residuals. Plastic based substrates are to be roughened, afterwards cleaned / washed and dried before the filler is applied. When embedding of CIPP-liner, any pre-liner and inner liner coatings are to be removed mechanically in all areas where the filler is to be applied. Mineral based substrates might be dry or damp. A closed water film is to be avoided.

For more information, also concerning application details, have a look on the data sheet "General application advice for the connection of CIPP liners to manholes".

#### Mixing

Konudur Flexfit is delivered in packs containing proportionate amounts. Base (comp. A) and hardener component (comp. B) are to be mixed thoroughly and homogeneously, using slowly running stirrers (200 - 400 rpm) so that a homogenous color (also at the side areas of the can) is given.

To ensure a correct mixing ratio and in terms of environmental protection it is necessary to empty the single packages completely. Mixing by hand or mixing of partial quantities is not allowed.

#### Application (plugging / filling)

Once Konudur Flexfit is mixed, the material can be applied manually, using suitable tools (trowel,

leveller, spatula) to the prepared substrate. To optimize the adhesion to damp substrates slightly stiffed material can be overworked with slight pressure. Within its pot life Konudur Flexfit can be smoothed with e.g. vegetable oil.

Application details are given in the data sheet "General application advice for the connection of CIPP liners to manholes".

#### Resistance to water contact

The resistance to water contact / back to service time of Konudur Flexfit depends on material, substrate and air temperature. For details on this topic see table "Technical data for Konudur Flexfit". Keep damaged spot / application area of Konudur Flexfit free of waste water during application and during curing phase. The first contact to water is possible as soon as the material surface has stiffened (can still be sticky).

#### Cleaning

Within pot life all equipment might be cleaned using MC-Reinigungsmittel U (thinner). Partially or fully cured material can only be removed by mechanical means.

#### Safety

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

GISCODE: PU 40



## Technical Data of Konudur Flexfit

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.v. p.b.w.	1 : 1 1 : 0.94	comp. A : comp. B
Specific weight	kg / l	approx. 1.60 approx. 1.51 approx. 1.55	component A component B mixture
Viscosity	Pa·s	approx. 200	mixture
Pot life	min	approx. 8	
Curing time (until resistance to water is given) **	min	approx. 25 - 30	
Application conditions	°C	+ 8 to + 30 + 15 to + 25	air- and substrate temperature material temperature
Tensile strength	MPa	approx. 4.5	EN ISO 527-2
Elongation at break	%	approx. 40	EN ISO 527-2
Full chemical and mechanical resistance	d	7	

## Product Characteristics for Konudur Flexfit

Cleaning agent	MC-Reinigungsmittel U (thinner)
Color	anthracite
Form of delivery	Box of 4 x 1.0 liter
Storage	If tightly sealed, the original packs can be stored for at least 6 months at temperatures between +5 and +20 °C. Same requirements apply to transport.
Pack disposal	Packs must be emptied completely.

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

\*\* All mentioned properties and results are identified at laboratory conditions. The description "resistance to water" refers to slightly running water. Within the first 24 h after application, protect the material against direct attack of water jet and intensive abrasion.

**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 10/18. 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.