



Konudur HL 11 PP

Polyester needle felt hose with PP-foil for rehabilitation by CIPP lining

Product Properties

- Polyester needle felt hose with polypropylene foil
- Easy impregnation of polyester needle felt
- Good handling

Areas of Application

- Polyester needle felt hose for CIPP liner Systems, suitable for inversion technique
- No-dig rehabilitation of defective sewer pipes and ducts
- Rehabilitation methods for underground sewer pipes and ducts

Application Advice

Customization

Customization (cutting to required length) must be carried out while protected from weathering.

When required length of polyester needle felt is calculated, observe additional length for e.g. beginning and end of liner, vacuum, filling port of resin and samples.

Vacuum

See the data sheet "General Application Advice for CIPP liner Systems" and the "Technical Data" table.

Impregnation

See the data sheet "General Application Advice for CIPP liner Systems". The specific coverage of resin for the polyester needle felt is listed in the

"Technical Data" table and must be seen as a guideline only for the approx. calculation. Demand for resin of the polyester needle felt can differ (e.g. special project conditions) and must be adapted till the felt is completely impregnated.

Application

See the data sheet "General Application Advice for CIPP liner Systems". Polyester needle felt hose is installed by inversion technique. Observe explanation and data given in the application manual "Konudur Homeliner".

Safety Advice

Observe the hazard notices and safety advice on the labels and safety datasheets.



Technical Data of Konudur HL 11 PP

Characteristic	Unit	Value*	Comments
Diameter (available)	DN (mm)	150 - 600	larger diameter on demand
Wall thickness (available)	mm	3 - 18	at 0.5 bar during hardening process
Vacuum pressure	bar	0.1 - 0.4	
Liner undersize	%	approx. 10	
Resin consumption**	l/m ² /mm	approx. 1.0	
Inversion pressure	bar	0.2 - 0.6	depends on diameter and wall thickness
Inflation pressure (by water or compressed air)	bar	approx. 0.5	during hardening process, depends on diameter and wall thickness
Grammage (each needle felt layer)	g/m ²	450 - 1,050	tolerance ± 10 %
Grammage (PP-coating)	g/m ²	approx. 300	DN 150 - 600, tolerance ± 10 %
Wall thickness (PP-coating)	mm	approx. 0.3	DN 150 - 600, tolerance ± 10 %
Maximum temperature***	°C	+ 115 + 70	during inversion / hardening process during use****

Product Characteristics for Konudur HL 11 PP

Colour	greige-white
Form of delivery	Delivery table available on demand
Storage	Polyester needle felt hoses can be stored for at least one year at temperatures between + 15 °C and + 20 °C in dry conditions, free of dust and UV-light. The same requirements apply to the transport.
Disposal	Residuals of the material, which did not get in contact with epoxy resin or a cleaning agent, can be disposed with the domestic waste. Residuals of the material, which are contaminated or soaked with resin, can be disposed with domestic waste after a proper and complete hardening.

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

** Quantities used depend on the object, storage and working temperatures as well as on the substrate temperature. We recommend carrying out experiments beforehand to determine object-specific quantities.

*** Maximum temperature during hardening process and operating conditions depend on the reaction resin used for impregnation.

**** Thermal resistance was determined using potable water. Aggressive sewage ingredients may have an impact to thermal resistance.

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 01/15. 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.

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