Trelleborg UltraFlex 1D

QUICK OVERVIEW

Bendability

★★★★★

Temperature resistance in °C

50° 80° 100°

Diameter changes*

- +25 %

Final wall thickness ≥**

- 3.5 – 5.0 mm

RANGES OF APPLICATION

- Underground-/ Down pipes with diameter change
- DN 50 to DN 200 [NPS 2” to 8”]

TECHNICAL SPECS

Installation pressure P_{Inst}

- 0.3 – 0.7 bar / 4.35 – 10.15 psi

Curing pressure P_{Cure}

- 0.3 – 0.7 bar / 4.35 – 10.15 psi

Maximum pressure P_{max}

- 0.8 bar / 11.6 psi for DN 50 Depending on diameter. Please refer to the technical data sheet.

Gap between calibration rollers

- 8.8 mm (4.0 mm final wall thickness)

EASY TO INVERT, PERFECT FOR BENDS

The Trelleborg UltraFlex 1D is the perfect product for rehabilitating sections with up to one change in dimension and multiple bends up to 90°. It is available for rehabilitating pipes with diameters from DN 50 to DN 200 (additional sizes on request).

Its PES nonwoven carrier material allows it to be installed with minimal pressure and to achieve excellent lining of bends. The special substrate material also makes it possible to overfill the liner with resin, thus achieving excellent final wall thicknesses in the expanded areas if required.

The UltraFlex 1D can be used with all known curing methods. When curing with steam, the temperature limit of 80 °C must be observed. At higher steam temperatures, a suitable calibration hose must be used to protect the hose from damage. Due to its good stretchability, areas outside of the pipe must be protected against unwanted expansion with a preliner or calibration hose.

Please also note the technical data sheets and the information and notes in the processing manual.

PRODUCT INFORMATION

- Seam type: Sewn and taped (TPU)
- Coating: Polyurethan (PU) 305 µm
- Final wall thickness ≥**: 3.5 – 5.0 mm
- Temperature resistance: up to 80 °C (176 °F) , up to 100 °C (212 °F) if cal tube is used

NOMINAL DIAMETER AVAILABILITY

- DN 50 to DN 200 [NPS 2” to 8”]

HOSE LENGTHS

- Standard length 100 m [approx. 328 ft – actual length may vary]

SUITABLE RESIN SYSTEMS

- Trelleborg Epoxy FC15 / 30 (Comp. A + B)
- Trelleborg Epoxy HC120+ (Comp. A + B)
- Trelleborg Epoxy BC15 / 30 / 60 (Comp. A + B)
- Trelleborg EasyPox (Comp. A + B)
- Trelleborg RayCure (one component resin)

CURING METHODS

- Ambient
- Hot
- Steam
- UV-Hg / LED

EPOXY RESIN CONSUMPTION (4.0 MM FINAL WALL THICKNESS)

- DN 50: approx. 0.61 kg/m
- DN 75: approx. 0.95 kg/m
- DN 100: approx. 1.28 kg/m
- DN 125: approx. 1.61 kg/m
- DN 150: approx. 1.95 kg/m
- DN 200: approx. 2.62 kg/m

RAYCURE UV-RESIN CONSUMPTION

- DN 50: approx. 0.59 kg/m
- DN 75: approx. 0.91 kg/m
- DN 100: approx. 1.23 kg/m
- DN 125: approx. 1.55 kg/m
- DN 150: approx. 1.87 kg/m
- DN 200: approx. 2.51 kg/m

5 % loss in length for every 25 % change in dimension.

The values given above are affected by the resin used, the pipe size, and the temperature of the resin and the environment.

IN ACCORDANCE WITH GLOBAL STANDARDS

DIN EN

Deutsches Institut für Bautechnik DIBt

ASTM INTERNATIONAL Standards Worldwide

CERTIFIED QUALITY

Quality Management System DIN EN ISO 9001 certified

Quality Management System DIN EN ISO 14001 certified

* Please note that the expansion of the hose liner when changing dimensions will always affect the final wall thickness. The thinning of the liner can be counteracted by using larger quantities of resin.

** Provided that the relevant installation regulations are complied with (see manual)

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