

Max Top Flex 3D

Polyester Felt Liner for Transitioning Pipe Diameters and Bends up to 90°

DESCRIPTION

Non-woven needle punched PE felt liner with an impermeable PU coating. Specially designed stitched seam and taped overlap joint capable of negotiating bends up to 90° with minimal wrinkling. Capable of changing circumferences up to 4 diameters (4D).

TECHNICAL DATA

- **Coating:** PU
- **Carrying Material:** Polyester needle-felt liner with polyurethane coating
- **Installation:** Inversion
- **Recommended Curing Method:** Hot Water or Steam
- **Resin Compatibility:** Use with MaxPox™ resin and hardener

APPLICATIONS

- Multiple bends up to 90°
- Transitions without ridge
- Ease of inversion

THICKNESS RANGE

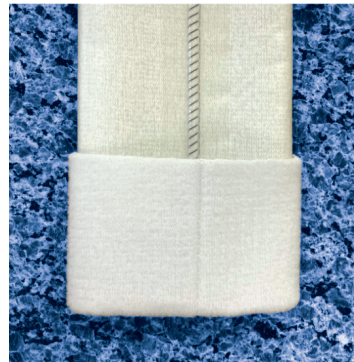
- 4.5 mm

AVAILABLE MANUFACTURER LENGTHS

- 165' and 330' | 50 m and 101 m stock lengths (+/-)
- Custom longer lengths available

DIAMETER RANGE

- 2" - 10" | 51mm - 254mm
- 4" | 102mm (will stretch up to 6" | 152mm)
- Larger sizes available



INSTALLATION

- **Installation Air Pressure:** 5 to 7 psi | 0.34 to 0.48 bar (may need additional pressure to invert around bends)
- **Curing Pressure:** 5 to 7 psi | 0.34 to 0.48 bar for non-dimensional change — Consult with MaxLiner regarding dimensional changes and curing
- **Hot Water & Steam Curing Pressure:** 7 to 10 psi | 0.48 to 0.69 bar

Restrain unsupported material when upsizing. Vacuum level shall meet or slightly exceed Installation and Curing pressure. Always use the larger size calibration tube when upsizing.

STORAGE/HANDLING**Avoid Extremes of Temperature**

- Freezing may cause the coating structure to degrade locally, especially areas where the coating is in tension or compression — at bends and edges, and immediately adjacent to seam welds.
- Recommended storage temperature 40°F – 95°F | 4°C – 35°C.
- Shelf life at this temperature: in excess of 1 year.

Avoid Extremes of Humidity

- Very high relative humidity (especially at high temperatures such as tropical countries) will accelerate the degradation, consequently reducing the shelf life.
- Recommended storage humidity 25% rh – 65% rh.
- Shelf life at 65%, 95°F | 35°C: in excess of 1 year.

Avoid Prolonged Wet Storage

- As with high humidity, the coating is more susceptible to degradation at higher temperatures, and even further susceptible if pH of liquid in contact is significantly above or below 45°F | 7°C. Wet storage is not recommended.

Avoid Direct Sunlight

- Prolonged exposure to the sun's ultraviolet light will accelerate the degradation of the coating. Store away from direct sunlight, preferably in dark conditions.

MECHANICAL DAMAGE SHOULD BE AVOIDED

- Ensure that liner is not placed directly onto grit or gravel floor — sweep and cover floor first.
- Ensure personnel are instructed not to walk on or smoke around the liner.
- Handle with care and ensure safe transport at all times.
- Ensure any rollers are clean, and the liner is not in contact with any sharp edges or snags anywhere during use.

CHEMICAL ATTACK

Avoid prolonged contact with solvents and chemicals.

TECHNICAL SUPPORT

Call technical support with additional questions at (877) 426-5948.

DISCLAIMER

The information contained herein is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and no warranty of any kind is made with respect thereto. Exact coating type and thickness depend on the specific types of resin being used. Always read, understand, and comply with hazard warnings described in the products' Safety Data Sheet(s) before use.