TECHNICAL DATA SHEET

MAXLINER®

# 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

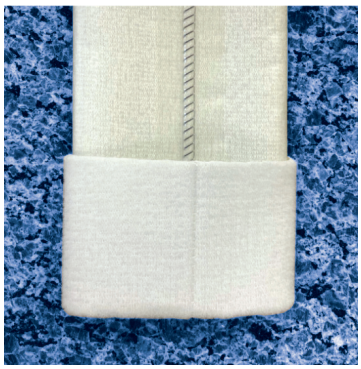
- 4.5 mm

### 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 temperature 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
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