

LINER

WovoGlass™: A WovoLiner® Product

An ultra-flexible liner, uniquely bonded to a seamless impermeable polyurethane coating which is 3x stronger than traditional liners. The circular-knitted construction of polyester and extensible fiberglass reinforcement makes it ideal for transitioning several pipe diameters and lining around multiple bends up to 90°. This liner is manufactured in accordance with ISO9001:2015.

DIMENSION AVAILABILITY: TYPICAL RESIN & ROLLER GAP INFORMATION

| WOVOGLASS | TYPICAL INSTALLED THICKNESS | TYPICAL RESIN SATURATION | | | ADDITIONAL INFO | |
|---------------|-----------------------------|--------------------------|----------------|-------------------|-----------------|----------------|
| PIPE DIAMETER | | LITERS PER METER | KG/M IF SG 1.2 | LB/FOOT IF SG 1.2 | ROLLER GAP | SUPPLY LENGTHS |
| 3"/70 mm | 3.5 mm | 0.79 | 0.94 | 0.75 | 9 mm | 328'/100m |
| 4"/100 mm | 3.5 mm | 1.06 | 1.27 | 0.90 | 9 mm | 328'/100m |
| 6"/150 mm | 3.5 mm | 1.61 | 1.93 | 1.30 | 9 mm | 328'/100m |
| 8"/200 mm | 3.5 mm | 2.16 | 2.59 | 1.70 | 9 mm | 328'/100m |

INSTALLATION METHODS

| | RESIN TYPE | | | CURING PROCESS | | | | |
|--------------------|------------|----|-----|------------------|--------------------|---------|------------|----------|
| WOVOGLASS | EP | UP | VE | HOW WATER <176°F | STEAM & AIR <176°F | AMBIENT | WARM WATER | LED CURE |
| HOT CURE INVERSION | YES | NO | YES | YES | YES | YES | YES | YES |
| HOT CURE DRAG-IN | YES | NO | YES | YES | YES | YES | YES | YES |
| DRAG-IN | NO | NO | NO | NO | NO | NO | NO | NO |

We recommend that all wovoglass installations should be supported at all positions outside of the pipe being lined. If not a blind shot, it is important to exert the product in longitudinal tension in order to avoid wrinkling. Compatibility of specific resins should be verified.

LINER PREPARATION & INSTALLATION

A suitable holdback should be employed and should be paid out in tension with air or water pressure as below. Site circumstances, such as ground water head, should be considered when selecting an appropriate installation head.

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| WOVOGLASS | MINIMUM INVERSION HEAD (WITH HOLDBACK TENSION) | | MAXIMUM INVERSION OR CURE HEAD | | RECOMMENDED CURE HEAD | |
|-----------|--|-----|-----------------------------------|-----|--------------------------|-----|
| | DIAMETER | BAR | PSI | BAR | PSI | BAR |
| 3"/70+ mm | 0.2 | 3 | 0.4 | 6 | 0.3 | 4.5 |
| 4"/100 mm | 0.2 | 3 | 0.4 | 6 | 0.3 | 4.5 |
| 6"/150 mm | 0.2 | 3 | 0.3 | 4.5 | 0.2 | 3 |
| 8"/200 mm | 0.2 | 3 | 0.3 | 4.5 | 0.2 | 3 |

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 always ensure safe transport.
- 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.

Call technical support with additional questions at +1 (734) 744 5557

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