Waterline Renewal Technologies™

Product Name: Scrim Liner
Product Description: Liner used for horizontal pipe rehabilitation.
Typical Applications:

Material typical used in a straight horizontal shot for pipe rehabilitation. Materials strength and flexibility allow it to be inverted and allows material to mold to host pipe leaving little to no void. Installation typically limited to two bends.

Performance Limits *** If product is utilized outside the limits defined below, warranty coverage is voided ****

Characteristic	Spec	Comments
General		
Typical Dry Thickness (mm)	4.0 - 5.0	
Typical Finished Thickness (mm)	3.2 – 5.0	Depends on installation pressures, pipe diameter, and number of bends (45° & 90°) and resin fill ratio
Sizes Available (in.)	3, 4, 5, 6, 8, 9, 10, 12	Custom sizes are available. Contact your local sales representative to determine product suitability for your application
Resins		
Epoxy (2:1)	YES	Compatible with cold, warm, hot and heat assist variants of resin
Epoxy (4:1)	YES	Compatible with cold variant of resin
Vinyl Ester	YES	Compatible with Vinyl Ester resin
Install Design		
Typical Max Depth of Install (ft) for Structural Integrity	3” –> 50’ 4” –> 27’ 5” –> 16’ 6” –> 4’ 8” and greater –> 0‘	Depth assumes install conditions with typical install thickness (3mm), fully deteriorated pipe, 5% ovality, flooded conditions, soft soil and 50% long term retention of mechanical properties. Installation data along with pre & post video will be required for warranty validation. If install is expected to exceed typical depth under stated conditions, product may still work however it is up to the installer to ensure this material can be structurally installed for a particular depth. Contact representative for assistance.
Can be used across Transitions?	YES	This material must be made to order for specific pipe transitions. Contact representative to discuss specific application.
Remote Start Allowed?	YES	Tab cal tube to liner using tabbing adhesive **HH-66**. Refer to training manual for correct tabbing procedure.
Install with Infiltration Allowed?	Situational	Thin material may not retain enough resin in high I&I situations to form structurally sound liner. **Contact representative to discuss specific application.**
Resin per FT	Varies by size, resin type	**Epoxy Resins**: 3”- 0.65 lbs./ft 4” - 0.85 lbs./ft 5” – 1.10 lbs./ft 6” – 1.30 lbs./ft 8” – 1.80 lbs./ft 9” – 2.05 lbs./ft 10” – 2.30 lbs./ft 12” – 2.75 lbs./ft Above values are the minimum resin consumption values to meet ASTM-F1216 standards.
Installation		
Wet Out Gap Setting (mm)	7.5mm - 9.0mm	When using the Electric Wet Out Roller System ****DO NOT USE FLOOR ROLLER FOR RISK OF RESIN SHY FINAL PRODUCT****
Typical Inversion Pressures (psi)	5-12	Depends on installation pressures, pipe diameter, and number of bends (45° & 90°)
Maximum Inversion Pressure (psi)	20	Pressures exceeding this limit run the risk of tearing the liner or excessive “thinning” around bends
Stretch Factor (At recommended inversion pressures)	1%-1.5%	Highly dependent on inversion pressure, length of install, and pipe diameter. Stretch will be limited to about 1% if the inversion rate is well controlled (slow). The larger the diameter and the longer the run, the more the material will stretch with speed.
Max Curing Pressures (psi)	15	Pressures exceeding this limit run the risk of tearing the liner or excessive “thinning” around bends
Maximum Heat Assist Temperature (°F)	220°F	Liner can be cured ambient, hot water or Steam (Do Not exceed 220°F at the liner)

Please contact your representative at 1-866-336-2568 if you have any questions.