

Product Name: Navi PIP Liner**Product Description:** Liner used for horizontal/vertical pipe rehabilitation using pull in place method.**Typical Applications:**

Material typical used in a horizontal PIP for pipe rehabilitation. Materials strength and flexibility allow for pull in place only. Material will mold to host pipe leaving little to no void. Inflation, installation, and deflation pressures must be properly controlled.

Performance Limits ** If product is utilized outside the limits defined below, warranty coverage is voided **** UV installation is possible, however if product is installed with UV systems, warranty coverage is voided**

Characteristic	Spec	Comments
General		
Typical Dry Thickness (mm)	2.2 – 3.2 mm	
Typical Finished Thickness (mm)	2.2 – 2.8 mm	Depends on installation pressures, pipe diameter
Sizes Available (in.)	2, 3, 4, 5, 6, 8, 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	NO	Not recommended – contact representative for guidance
Install Design		
Maximum Depth of Install (ft)	2" → 28' 3" → 6' 4" and greater → 0'	Depth assumes flooded conditions with fully deteriorated pipe and 10% ovality. If install is expected to exceed recommended max depth, product may still work, but requires approval prior to installation.
Can be used across Transitions?	NO	Contact representative to discuss specific application.
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: 2" - 0.35 lbs./ft 3" - 0.55 lbs./ft 4" - 0.70 lbs./ft 5" - 0.90 lbs./ft 6" - 1.05 lbs./ft 8" - 1.50 lbs./ft 10" - 1.75 lbs./ft 12" - 2.2 lbs./ft Above values are the minimum resin consumption values to meet ASTM-F1216 standards.
Installation		
Wet Out Gap Setting	5.5 mm	When using the Electric Wet Out Roller System **DO NOT USE FLOOR ROLLER FOR RISK OF RESIN SHY FINAL PRODUCT**
Wet Out Procedure	N/A	When scoring the plastic sheeting it is key NOT to cut and puncture material or bladder . Result could lead to bladder and install failing.
Typical Bladder Holding Pressures (psi)	5-12	Depends on installation pressures, pipe diameter
Maximum Bladder Holding Pressure (psi)	20	Pressures exceeding this limit run the risk of tearing the liner or excessive "thinning" around bends
Bladder Holding Pressures	2" – 20 psi 3" – 17 psi 4" – 15 psi 5" – 14 psi 6" – 13 psi 8" – 6 psi 10" – 5 psi	Pressures exceeding this limit run the risk of tearing the liner or excessive "thinning" around bends
Stretch Factor (at recommended inversion pressures)	N/A	To reduce risk, host pipe should be properly scoped, cleaned, and the inner dimension properly identified prior to install.
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.

