

Product Name: UV Flex Liner (Pull in Place)


Product Description: Flexible fiberglass liner for use with Light Ray technology

Typical Applications:

Use this material with WRT's Light Ray PIP technology for CIPP repairs in as little as 6 minutes. Works well in systems with multiple 45° or 90° bends as well as transitions. Materials flexibility allows for ease of inflation as well as molding to the host pipe and leaving little to no void.

Performance Limits

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

Characteristic	Spec	Comments	
General			
Typical dry Thickness (mm)	3 – 5.5		
Typical finished Thickness (mm)	2.8 – 5.3	Depends on installation pressures, pipe diameter, and number of bends (45° & 90°). Approx. 0.3mm thinner than dry thickness.	
Liner Sizes available (in.)	3, 4, 6, 8	Thk. available: (3",4",6") = 3mm (8") = 4mm or 5mm	
Liner Undersize %	10%	As compared to nominal pipe dimension	
Repairable Nominal Pipe Sizes (in.)	3 - 12	Liners can upsize 50% (3"→4.5", 4"→6", 6"→9", 8"→12")	
Coating	None		
Resins			
Light Ray UV Vinyl Ester	YES	Product comes pre-wet with this resin. **May work with other resins but use of other resin voids warranty**	
Install Design			
<div><div></div><div>DEPENDENT ON PIPE INSTALLATION CONDITIONS.</div></div> ** Typical Max Depth of Install (ft) for Structural Integrity	3" → 9' 4" → 5' 6" → 3' ≥8" → 0'	WORST CASE:	<ul style="list-style-type: none">- Pipe ovality = 10%- Very soft, uncompacted soil- Flood plains & High-Water Table- Pipe Condition = Fully Deteriorated
	3" → 52' 4" → 30' 6" → 15' 8" (3mm) → 11' 8" (4mm) → 15' 10" (4mm) → 10' 12" (4mm) → N/R	TYPICAL CASE: (Fully Deteriorated)	<ul style="list-style-type: none">- Pipe ovality = 5%- Moderately compacted soil- 10ft water table below surface- Pipe Condition = Fully Deteriorated
	3" → 65' 4" → 37' 6" → 19' 8" (3mm) → 16' 8" (4mm) → 23' 10" (4mm) → 16' 12" (4mm) → 14'	TYPICAL CASE: (Partially Deteriorated)	<ul style="list-style-type: none">- Pipe ovality = 5%- Moderately compacted soil- 10ft water table below surface- Pipe Condition = Partially Deteriorated
	3" – 12" → Any Depth	BEST CASE:	<ul style="list-style-type: none">- Pipe ovality = 2%- Highly compacted soil- No water above pipe- Pipe Condition = Partially Deteriorated
Can be used across Transitions?	YES	Stretch must be accounted for when upsizing	
Remote Start Allowed?	NO		

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Install with Infiltration Allowed?	Not Recommended	High I&I situations may impact the structural integrity of any installed liner. Contact representative to discuss specific application.
Resin per FT	Varies by size, resin type	Light Ray UV Resin: 3" – 0.37 lbs./FT, 4" – 0.55 lbs./FT, 6" – 0.83 lbs./FT, 8" – 1.1 lbs./FT → 10" & 12" use upsized 8"
Maximum Continuous Operating Temperature	120°F (49°C)	
Installation		
Wet Out Gap Setting	9.8 mm	When using the WRT Wet Out Roller System and proper vacuum **DO NOT USE FLOOR ROLLER FOR RISK OF RESIN SHY FINAL PRODUCT**
Typical Inflation Pressures (psi)	Reference LR3 Process Table	Depends on installation length, pipe diameter, and number of bends (45° & 90°)
Maximum Inflation Pressure (psi)	Reference LR3 Process Table	Pressures exceeding this limit run the risk of tearing the liner or excessive "thinning" around bends
Max Curing Pressures (psi)	25	Pressures exceeding this limit run the risk of tearing the liner or excessive "thinning" around bends
Stretch Factor - (Size on Size Installation)	1.03	Multiply Repair Length by value shown to determine liner length
Stretch Factor - (Transition UP 50%)* 4" → 6" 6" → 9" 8" → 12"	1.25	Multiply Repair Length by value shown to determine liner length <i>*For intermediate sizes, contact Waterline representative</i>
Suitable Host Pipe materials		Cast iron, ABS, PVC, Orangeburg, Clay
Storage Guidelines		
<ul style="list-style-type: none"> • Until time of use, leave liner in the UV protective film • Do not expose to direct sunlight in storage • Ideal storage temperature not to exceed 85°F (30°C) 		

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



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