

Technical Data Sheet

AQUACURE PU: POLYURETHANE COATED FELT LINER

PRODUCT DESCRIPTION

Polyester fiber Liner with Polyurethane coating custom sized for pipe rehabilitation manufactured in accordance with the current ISO 9001 Standards. To accommodate the requirement for liners of varying thicknesses multi-layer liners are employed using multiple polyester fiber rolls.

DIMENSION AVAILABILITY

	HOT CURE EVERSION	AMBIENT/WARM CURE EVERSION	HOT CURE DRAG-IN	AMBIENT/WARM CURE DRAG-IN		
DIAMETER	4in to 100in	3in to 9in	6in to 72in	3in to 9in		
THICKNESS	3mm to 50mm	3mm to 6mm	3mm to 12mm	3mm to 6mm		
LENGTH	ANY	ANY	Up to 300 feet	Up to 300 feet		
COATING WEIGHT	400GSM (NOMINAL)					
Liner undersized <10%						
LINER DESIGN	itched liners only availab	ailable up to 24in diameter.				
Liner can negotiate pipe bends up to 45°						

INSTALLATION METHODS

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	RESIN TYPE		CURING REGIME				
LINER TYPE	EPOXY	POLYESTER/ VINYLESTER	HOT WATER <194°F	STEAM <194°F	AMBIENT	WARM WATER <122°F	WARM AIR ACCELERATED
HOT CURE EVERSION	×	✓	✓	✓	×	×	×
AMBIENT/WARM CURE EVERSION	✓	✓	×	×	✓	\checkmark	\checkmark
HOT CURE DRAG- IN	×	✓	✓	✓	×	×	×
AMBIENT/WARM CURE DRAG-IN	✓	✓	×	×	\checkmark	✓	\checkmark

TEST SPECIFICATIONS

	CHARACTERISTIC	TEST	STANDARD
	Density and density distribution at various applied pressures.	Compression measured at increasing pressure.	ASTM D5199
ROLL	Load at break in machine and cross directions.	Tensile testing - Maximum Resistive Force.	ASTM D5035
RC	Secant Modulus in machine and cross directions (resistance to stretch)	Tensile testing - Maximum Resistive Force vs Extension %.	ASTM D5035
	Coating weight and distribution.	Samples weighed to determine distribution of coating in cross direction of the roll.	-
	Coating adhesion and ability to weld.	Peel strength of welded tape.	ASTM D903
LINER	Density, Gauge of liner under various applied pressures.	Compression test of sample of all layers.	ASTM D1777
	Felt weld strengths.	Each weld is sampled and destructively tested.	ASTM D5035
	Sealing tape weld strengths.	Each weld is sampled and destructively tested.	ASTM D5035



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Direct Sales: (914) 548-1938 General Inquiries: (276) 656-1904 info@appliedfelts.com Note: Liners are manufactured to internal standard or customer specifications. All liners are tested to the tests declared above and adhere to the declared ISO standards. Test data is available on request.



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POLYURETHANE COATED FELT LINER (PU)

CURING TEMPERATURE MAX 90°C

DIAMETER (in)	LINER THICKNESS	MINIMUM INVERSION	MAX COLD INVERSION	IDEAL CURING	MAX HOT PRESSURE	RESIN AMOUNT	PINCH ROLLER GAP
	(mm)	PRESSURE	PRESSURE	PRESSURE	(psi) @ 90°C	(Gallon/ft)	(mm)
		(psi)	(psi)	(psi)			
4	3	9	13	11	11	0.06	8.4
5	3	6	10	8	9	0.09	8.3
6	3	5	9	7	8	0.10	8.2
6	4.5	8	13	10	11	0.15	12.2
8	3	4	7	5	6	0.14	8.1
8	4.5	6	10	7	9	0.21	12.0
8	6	7	13	10	11	0.27	16.0
8	7.5	9	16	12	14	0.36	20.2
9	4.5	5	9	6	8	0.23	11.9
9	6	7	12	8	10	0.31	15.9
10	4.5	4	8	6	7	0.28	11.9
10	6	6	10	8	9	0.35	15.8
10	7.5	7	13	9	11	0.45	19.8
12	6	4	9	6	8	0.42	15.6
12	7.5	6	12	8	10	0.55	20.9
12	9	7	14	9	13	0.68	26.5
15	7.5	4	9	6	8	0.69	19.4
15	9	5	10	7	9	0.82	23.3
15	10.5	6	12	8	11	0.95	27.4
18	9	4	9	6	8	0.99	23.1
18	10.5	5	10	7	9	1.15	27.0
18	12	6	12	8	10	1.31	31.1
18	13.5	7	13	9	11	1.47	35.2
21	9	4	7	5	7	1.16	22.9
21	10.5	4	9	6	8	1.35	26.8
21	12	5	10	6	9	1.54	30.8
21	13.5	6	11	7	10	1.72	34.8
21	15	6	12	8	11	1.91	38.8
24	9	3	7	4	6	1.33	22.8
24	10.5	4	8	5	7	1.54	26.7
24	12	4	9	6	8	1.76	30.6
24	13.5	5	10	6	9	1.97	34.5
24	15	5	11	7	9	2.19	38.5

^{1.} Suitable only for Applied Felts liners designed for and to be installed by eversion.

^{4.} All information is provided by Applied Felts in good faith, but without warranty. All calculations should be verified.



^{2.} Roller gap setting is for guidance only. Impregnation equipment differs: Rubber wrappings on rollers, positional hysteresis and flexing of rollers cause roller gap settings to vary between different equipment. Roller gap setting for any given equipment should be reasonably repeatable.

^{3.} We strongly recommend the resin addition be monitored and controlled by adjustment of the roller gap setting. Ultimately, it is the correct resin addition which is imperative, not the roller gap.

