TECHNICAL DATA SHEET

MAXLINER®

Max Glass Reinforced Coated Felt Liner

DESCRIPTION

Polyester fibre Liner with glass reinforcement to enhance mechanical properties. Available in different coating types (PUS, PUXR, PP, PVC) and coating weights, custom sized for pipe rehabilitation manufactured in accordance with ISO 9001:2015. To accommodate the requirement for liners of varying thicknesses multi-layer liners are employed using multiple polyester fibre rolls with glass reinforcement introduced accordingly to offer improved mechanical strength in the installed liner.

DIMENSION AVAILABILITY

	HOT CURE EVERSION	AMBIENT/WARM CURE EVERSION	HOT CURE DRAG-IN	AMBIENT/WARM CURE DRAG-IN
DIAMETER	150mm to 2400mm**	150mm to 2400mm **	150mm to 2400mm	150mm to 2400mm
THICKNESS	3mm to 50mm	3mm to 50mm	3mm to 50mm	3mm to 50mm
LENGTH	Any			
COATING WEIGHT	400gsm to 1000gsm			
LINER DESIGN	Liner undersized <10%. Liner must be adequately supported to limit extension to the design diameter			
	Liner features a welded or stitched seam. Stitched liners only available up to 300mm diameter.			
	Liner can negotiate pipe bends up to 90°			

*For pressure pipe applications maximum length 245m to eliminate splices

**Advise to order pull tape for DN150 eversion

INSTALLATION METHODS

	RESIN TYPE		CURING REGIME				
	EPOXY	POLYESTER / VINYL ESTER	HOT WATER <90°C	STEAM <90°C	AMBIENT	WARM WATER <50°C	WARM AIR ACCELERATED
HOT CURE EVERSION	PUXR PP PVC	PU PP	✓	*	X	X	X
AMBIENT/ WARM CURE EVERSION	PUXR PP PVC	PUXR PP PVC	X	X	✓	✓	✓
HOT CURE DRAG-IN	PUXR PP PVC	PUXR PP PVC	✓	*	X	X	X
AMBIENT/ WARM CURE DRAG-IN	PUXR PP PVC	PUXR PP PVC	X	X	✓	✓	✓

* Steam cure not recommended for single layer liners.

APPLIED FELTS®
YOUR SUCCESS IS OUR SUCCESS

TEST SPECIFICATIONS

	CHARACTERISTIC	TEST	STANDARD
ROLL	Density and density distribution at various applied pressures.	Compression measured at increasing pressure.	ISO 845
	Load at break in machine and cross directions.	Tensile testing - Maximum Resistive Force.	ISO 1421
	Secant Modulus in machine and cross directions (resistance to stretch).	Tensile testing - Maximum Resistive Force vs Extension %.	ISO 1421
	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.	ISO 2411
LINER	Density, Gauge of liner under various applied pressures.	Compression test of sample of all layers.	ISO 845
	Felt weld strengths.	Each weld is sampled and destructively tested.	ISO 1421
	Sealing tape weld strengths.	Each weld is sampled and destructively tested.	ISO 1421

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.

CURING TEMPERATURE MAX 90°C

DIAMETER (MM)	LINER THICKNESS (MM)	EVERSION PRESSURE (BAR)	MAX EVERSION PRESSURE (BAR)	CURING PRESSURE (BAR)	MAX PRESSURE (BAR) @ 90°C	RESIN A MOUNT (LITRE/M)	PINCH ROLLER GAP (MM)
200	3	0.30	0.46	0.30	0.40	1.6	8.0
300	6	0.40	0.62	0.40	0.54	3.1	15.0
600	9	0.30	0.46	0.34	0.40	17.8	22.5
800	12	0.30	0.46	0.40	0.40	31.5	29.5
1200	18	0.30	0.46	0.47	0.40	70.9	44.5
1800	27	0.30	0.46	0.54	0.40	142.0	63.0
2400	36	0.30	0.46	0.60	0.40	267.4	80.0

1. Suitable only for Applied Felts liners designed for and to be installed by eversion.
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.
4. All information is provided by Applied Felts in good faith, but without warranty. All calculations should be verified.