

## About Applied Felts

As the world's largest independent manufacturer of 100% vertically integrated quality liners, Applied Felts is accredited with ISO 9001:2008 and every phase of manufacturing – including our 28-stage QA/QC testing system – is done in one location, ensuring confidence that Applied Felts' quality liners will stand the test of time.

A pioneer in cured-in-place pipe technology, Applied Felts has been used successfully for more than 35 years in quality installations that could circle the earth – twice – all without disrupting roads or other existing infrastructure.

**For technical assistance, pricing, and custom design calculations for your unique project, please contact us today.**



## AquaCure RP®

Fiberglass reinforcement for inside-out strength

After years of world-class research and development, Applied Felts is proud to introduce AquaCure RP® – delivering fiberglass strength with traditional felt liner performance.



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# AquaCure RP®

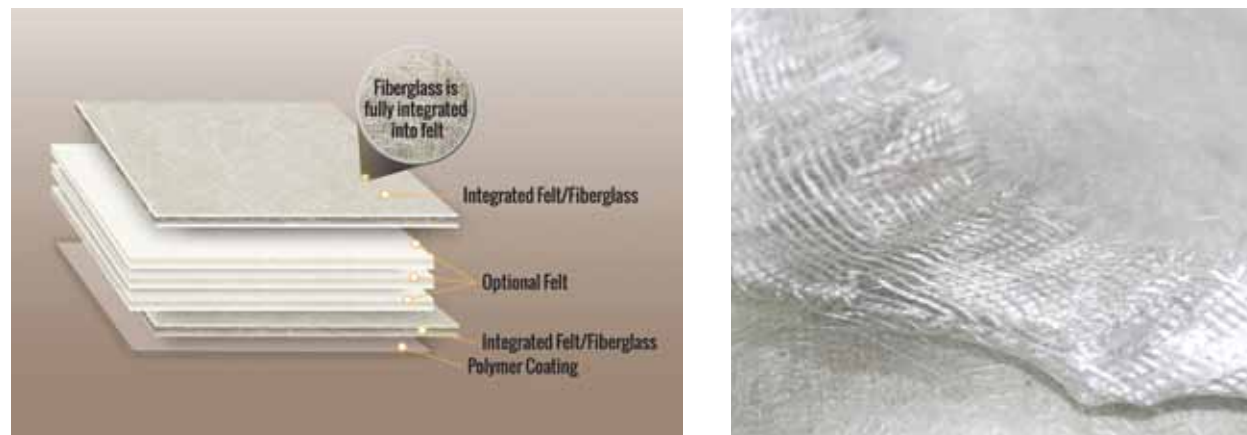
Fiberglass reinforcement for inside-out strength



ISO 9001:2008  
FM 56735  
FM 588513

AquaCure RP® combines fiberglass reinforcement with our existing, best-in-class felt liner design and construction. This exclusive technology fully integrates and blends the unique properties of each, providing the strongest, most robust liner on the market today.

With AquaCure RP® there is no learning curve – it performs and installs just like our non-reinforced liners with most of the same procedures and operations our customers have used for years, and continue to employ even today. Aquacure RP is impregnated on the same roller beds, using the same vacuums, and can be installed with the same equipment and techniques. This marriage of fiberglass and felt does, however, add some extra benefits to improve onsite economies and value.



## Features:

- Produces a matrix that will significantly reduce the thickness of liners; particularly larger diameter liners with excessive SDR requirements.
- Is thinner, so liners deliver significant resin savings and can lower total material costs.
- Weighs less, making transportation, handling and installation faster and easier.
- Reduces hard and soft costs associated with impregnation and associated overhead, improving efficiencies.
- Reduces emissions and conserves energy, protecting the environment.
- Delivers excellent resin saturation and retention properties.
- Stretches up to 10% to the existing pipe wall ensuring a close fit.
- Faster impregnation rates greatly reduce installation time.
- Provides excellent chemical resistance against sewer effluent elements.
- Provides superior physical and mechanical properties upon ASTM testing that deliver a typical increase in flexural modulus of 100-150%.
- Is manufactured by the world's leader in CIPP lining solutions.

## Product Specifications

Material	Multilayer polyester felt/fiberglass hybrid with impermeable coating conforming to ASTM-F1216
Diameter Range	8 to 96 inches (200 mm to 2.4 metres)
Thickness Range	3 to 50 mm
Maximum Shot Length	Any length made to order
Installation Method	Inversion using hot water
Resin Type/Coating Type	Polyester/Vinyl Ester: Standard Polyurethane, Polypropylene
	Epoxy: PUXR, PVC, Polypropylene
Host Pipe Type	All materials

## Product Design

Host Pipe Diameter	48 in (1200mm)
Host Pipe Ovality	5%
External Head of Water Above Invert	17 feet (5.2 metres)
Soil Depth Above Invert	25 feet (7.6 metres)
Soil Modulus	1,000 psi (6.9 MPa)
Soil Density	120 lb/ft <sup>3</sup> (1922 Kg/m <sup>3</sup> )
Typical HWY Live Load	16,000 lbs (7260 Kg)
Safety Factor	2
Design Method	ASTM F1216

## Comparison of Values

	Traditional Aquacure®	Aquacure RP®
Short-Term Flexural Modulus	400,000 psi (2758 MPa)	850,000 psi (5861 MPa)
Short-Term Flexural Strength	4,500 psi (31 MPa)	20,000 psi (137 MPa)
Wall Thickness	31 mm	24 mm