TECHNICAL DATA SHEET



EnviroCure UV®

FEATURES AND BENEFITS

- Multi-layer, overlapping glass fiber liner cure creates high strength, thinner wall
- Pre-impregnated, installation ready up to 1,200 ft. (365 m)
- Minimum 6-month shelf life in climate controlled environment
- Once Cured, smooth inner surface improves flow capacity, minimizes abrasion
- Easily bridge and accommodate offset joints and diameter changes
- Flexible liner properties create "dimple" effect at service connections for easy location
- Liner design has inherent 10% expansion
- EnviroCure UV is cured using ultra-violet light resulting in a faster cure and lower overall CO₂

UV INSTALLATION EQUIPMENT

Ask about the Vortex line of UV curing equipment for a broad range of diameters.

TYPICAL APPLICATIONS

EnviroCure UV Removable Inner Film

- Round: 6 in.- 24 in. (150mm 610mm)
- Oval: 8-1/2 in. 12 in. (200mm 300mm) 14 in. - 20 in. (350mm - 525mm)

EnviroCure UV® For Gravity

DESCRIPTION

Designed for gravity sewers, the family of EnviroCure UV CIPP liners are the perfect solution for extreme weather and environmentally sensitive projects. A key advantage of a UV Cured liner is its high-strength than can be achieved with a thinner wall. EnviroCure UV's multi-layered, overlapping construction make this possible.

EnviroCure UV is delivered to the jobsite preimpregnated with resin and ready for installation. This feature, combined with a faster and more efficient UV curing process, leads to improved QA/ QC, lower job costs, smaller equipment footprint and reduced CO₂ emissions during installation.

Anatomy of EnviroCure UV CIPP Liners

ENVIROCURE UV

Features 4 layers of material, which are overlapped to provide maximum strength. This multi-layer construction consists of:

- 1. Inner Film, Removable
- 2. Fiberglass/Felt
- 3. Fiberglass
- 4. Outer Film UV Protective Layer





TYPICAL MATERIAL PERFORMANCE & PHYSICAL PROPERTIES

EnviroCure UV®

APPLICATION TYPES

GRAVITY PIPE & CULVERTS

Round: 6 in. - 24 in. (150mm-610mm)

Oval: 8.5 in. - 12 in. (200 mm - 300mm) | 14 in. - 20 in. (350mm - 525mm)

REINFORCEMENT MATERIAL

Stitched, multi-axel ECR glass

RESIN: HIGH MOLECULAR WEIGHT UV CURABLE POLYESTER

Test	Unit of Measure	Nominal	Test Methods
Tensile Strength	psi/MPa	11,100/77	ASTM D638
Tensile Modulus	psi/GPa	490,000/3.4	ASTM D638
Tensile Elongation	%	3.3	ASTM D638
Flexural Strength	psi/MPa	18,240/126	ASTM D790
Flexural Modulus	psi/GPa	500,000/3.4	ASTM D790
Heat Distortion Temp.	°F/°C @264 psi	248/120	ASTM D648
Barcol Hardness	_	48	ASTM D2583

GLASS FIBRE CONTENT ACCORDING TO ISO 1172 (MASS RELATED)

50% (±5%)

GLASS WEIGHT PER UNIT AREA (EACH MM STRUCTURAL WALL THICKNESS/LAMINATE)

1112 g/m² (+/- 10%)

SHORT TERM MODULUS OF ELASTICITY (E-MODULUS) ACCORDING TO ASTM D790

*Indicative of composite thickness not including corrosion barrier.

≥ 2,707,040 psi

SHORT TERM FLEXURAL E-MODULUS ACCORDING TO ASTM D790

*Indicative of composite thickness not including corrosion barrier.

≥ 2.707.040 psi

SHORT TERM FLEXURAL STRENGTH ACCORDING TO ASTM D790

*Indicative of composite thickness not including corrosion barrier.

≥ 75,801 psi

^{*}Liner designs should adhere to industry standards and include a safety factor and/or assume 90% of typical physical properties.