



MaxLight® UV Resin Systems

UV CURE RESINS FOR CIPP REHABILITATION

The MaxLight® UV Resin Systems are uniquely formulated to cure with UV light that offer superior mechanical properties and chemical resistance. As a part of the MaxLiner® liner system, these resins are specially designed with excellent wet-out capability, ultra-low odor and are Styrene-free.



MaxLight Resin

TECHNICAL DATA

MaxLight UV Resin Systems are single-component resins designed to meet all specifications for a fully structural Cured-In-Place Pipe (CIPP) liner conforming to all applicable ASTM standards. Impregnated liner potlife varies with temperature and liner tube coating type. The data provided below is for reference only. For more detailed product information, contact MaxLiner prior to use.

BENEFITS

- No mixing - single component
- No Styrene, ultra-low odor
- No waste
- Superior mechanical properties
- Rapid cure times
- Excellent UV cure profile

REACTION DATA

Single Component	No Mixing
Temperature	77°F (25°C) prior to mixing
Cure	Ultraviolet light cure - 400nm

PHYSICAL PROPERTIES¹

Test	Test Method	ASTEMF1216	MaxLight Resin
Flexural Modulus, psi	ASTM D790	250,000	406,609
Flexural Strength, psi	ASTM D790	4,500	14,649
Compressive Strenght, psi	ASTM D695	4,000	25,817
Tensile Strength, psi	ASTM D638	3,000	8,700
Tensile Elongation, %	ASTM D638	5	5
Heat Deflection Temp (HDT)	ASTM D648	-----	174°F (79°C) @ 264psi



TYPICAL LIQUID PROPERTIES²

Test	Unit of Measure	Normal
Viscosity, @77°F (25°C)	cps	4,000
Color	-----	milky-white
Specific Gravity @ 77°F (25°C)	pounds/gallon	1.11
UV Gel Time	minutes	1 - 2
Heat Cure Gel Time @ 176°F (80°C)	minutes	3

Typical properties are not to be construed as specifications.

SYSTEM

MaxLight Resins are calculated by weight to fully impregnate (wet-out) MaxLiner tubes specially designed for the MaxLight Lining System. Follow MaxLiner recommendations for equipment and procedures for proper liner wet-out and installation.

FINAL PRODUCT

The combined resin and liner system is cured by UV light after insertion into the host pipe to form a tough, strong, renovated pipe that is resistant to municipal sewage, acids and alkalis commonly found in drains, sewers and commercial wastewater.

STORAGE

Resins are stable for up to one year from date of production when properly stored in the original containers, away from sunlight at no more than 77°F (25°C). During hot summer months, take extra caution to not exceed 86°F (30°C). Resin contains UV initiator and will polymerize upon exposure to sunlight. Always check lighting prior to use.

SAFETY

Always use Personal Protective Equipment (PPE) when using this product. Do not ingest. Always read the container label warning and Safety Data Sheets (SDS) prior to use. If you do not understand or cannot adhere to the guidelines and procedures for handling and use of these products in strict accordance with the SDS, do not use these products. Contact MaxLiner for a copy of SDS or download from our Mobile App.

DISPOSAL

Disposal must conform to local and state regulations.

It is important to note that MaxLight Resin Systems are specifically designed for CIPP applications and have not been modified from another industry resin in attempt to fit the complex environmental, design and performance needs required in the CIPP rehabilitation industry.

(1.) Based on tests at 77° F/25°C and 50% relative humidity. All tests performed on unreinforced cured resin castings. Thixotropic components, if applicable, are excluded from casting samples.

(2.) The gel times shown are typical but may be affected by catalyst, promoter, inhibitor concentration, resin, mold, and shop temperature. Variations in gelling characteristics can be expected between different lots of catalysts and at extremely high humidities. Pigment and/or filler can retard or accelerate gelation. It is recommended that the fabricator check the gelling characteristics of a small quantity of resin under actual operating conditions prior to use.