WATERLINE RENEWAL TECHNOLOGIES™

TECHNICAL DATA SHEET

LightRay Ultra Low VOC Resin

Product Description: LightRay Ultra Low VOC Resin is a UV curable, ultra low VOC resin which can be used for cured in place pipe applications that do not allow the use of styrene or other VOC components.

Typical Applications:
Use this UV curable, ultra low VOC resin for underground sewer pipe rehabilitation.

Typical Cast Mechanical Properties [1]			
Test	**Unit of Measure**	**Nominal**	**Test Method**
Tensile Stregth	psi/MPa	9,280/64	ASTM D 638
Tensile Modulus	psi/GPa	450,000/3.4	ASTM D 638
Tensile Elongation	%	3.2	ASTM D 638
Flexural Strength	psi/MPa	14,870/103	ASTM D 638
Flexural Modulus	psi/GPa	500,000/3.4	ASTM D 638
Heat Distortion Temp	F°/C° @264 psi	221/105	ASTM D 638
Barcol Hardness	-	40	ASTM D 638

DESCRIPTION

This is a UV curable, ultra low VOC resin that can be used for cured-in-place-pipe applications that do not allow the use of styrene or other VOC components.

BENEFITS

- Ultra low VOC content
- Excellent UV cure profile
- Superior mechanical properties

Typical Liquid Properties [2]		
Test	**Unit of Measure**	**Nominal**
Viscosity, @77°F/25°C, RVF Brookfield Spindle #3 @ 5 rpm	cps	3,500
Specific Gravity @ 77°F/25°C	-	1.11
Gel Time	minutes	1-2

Typical properties are not to be construed as specifications.

STORAGE STABILITY

Resins are stable for three months from date of production when stored in the original containers away from sunlight at no more than 77°F/25°C. During the hot summer months, no more than two months stability at 86°F/30°C should be anticipated. Resin contains UV initiator and will polymerize upon exposure to sunlight.

SAFETY

See the appropriate Material Safety Data Sheet for guidelines.

FOOTNOTES
(1.) Based on tests on LightRay Ultra Low VOC 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.) Variations in gelling characteristics can be expected based on type of UV light source. Pigment and fillers 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.