PrimeLiner
CIPP (Cured In-Place Pipe)
Data Sheet

PrimeLiner-Lt Blue (CIPP)

Resin – PrimeLine Epoxy - Lt Blue
Hardeners – 15 Min., 30 Min., 60 Min.

DESCRIPTION:

A 100% solids, non-draining, epoxy system for producing Cured In-Place Pipe. PrimeLiner – Lt Blue is a single resin system 4:1 (by volume) curing agent hardeners. PrimeLiner – Lt Blue epoxy resin is tinted transparent blue, and the hardeners are transparent yellow. When the PrimeLiner - Lt Blue system is properly mixed, a uniform green color is achieved. PrimeLiner - Lt Blue CIPP systems have a proven track record in conjunction with felt or fiberglass liner materials.

FEATURES AND BENEFITS:

- Rehabilitates underground pipes
- Cures very fast with mild (120°F) heat
- Trenchless repair of pipes from 2" to 102" in diameter
- Effectively lines pipes and drain lines with a 90-degree bend
- ASTM F-1216 compliant, adding value and assuring quality in the CIPP process

APPLICATIONS:

- Applications requiring less invasive pipe system replacement procedures
- Municipal / residential / commercial market (manholes and under ground pipe systems)
- Trenchless / less invasive sectional point repair systems for structural repair without digging
- Lateral and sectional point repair rehabilitation and re-lining markets (homes, sanitary and storm sewers, sewer pipelines)

PHYSICAL PROPERTIES:

Cured In-Place Pipe (CIPP) applications demand a wide variety of PrimeLiner hardeners which are available with the PrimeLiner -Lt Blue CIPP epoxy resin (see chart below).

PrimeLiner-Lt Blue Resin (CIPP) with:	Hardeners		
	15 Minute	30 Minute	60 Minute
Viscosity, cps	3460	2360	2460
Parts Hardener by Weight	22	22	22
Mix Ratio by Volume	4:1	4:1	4:1
Gel Time Min,150gr	12 – 15	30 – 35	50 – 60
HDT, °F	190	190	240
Set Time, Hrs at 77°F (25°C)	2	4	5
Cure Time, Hrs at 130°F (54°C)	2	3	4
Hardness, Shore D (24 hr room temp cure)	80	78	80
Elongation, %	4.5	4.5	4.0

All listed hardeners cure very rapidly with the addition of heat, via hot water or hot air at a temperature of 120˚F – 140˚F.

HARDENER RECOMMENDATIONS FOR PrimeLiner -LT BLUE (CIPP):

All hardeners reach sufficient strength for return to service after overnight ambient cure. The fastest hardener, PrimeLiner 15 Min., is useful for winter applications, and in smaller applications requiring a fast return to service time. PrimeLiner 30 Min., is the standard 30-minute system hardener used for 4:1 volume mixing applications. PrimeLiner 60 Min., should be used in high temp applications (up to 240˚F) and is 4:1 by volume, which is also useful in hot weather and for long or large diameter pipe runs.
PrimeLiner hardeners, are DOT not regulated / DOT non-corrosive, minimizing hazardous materials shipping issues.

CURE SCHEDULE OF PrimeLiner -LT BLUE:

Allow the composite to cure at the recommended temperature as listed in the physical properties chart (above). In the case of all listed hardeners, allow at least 6 – 8 hours at ambient (>65°F) or 2-3 hours at 130°F before attempting to return the composite to service. In colder weather (less than 65°F) allow additional time before returning the composite to service. In all cases, an elevated temperature cure of 2 – 4 hours at 120°F – 140°F assures the highest quality end product.

TYPICAL MECHANICAL PROPERTIES:

PrimeLiner -Lt Blue resin post cured at 130°F for 4 hours with all listed hardeners are compliant to ASTM F-1216. Listed properties are for typical epoxy/felt liner CIPP applications. Certification to ASTM F-1216 adds value and assures quality for firms using the CIPP process.

Hardness (Shore D)	85±5	ASTM D-1475
Tensile Strength	>3,000 psi	ASTM D-638
Modulus of Elasticity	>300,000 psi	ASTM D-790
Flexural Strength	>4,500 psi	ASTM D-790
Flexural Modulus of Elasticity	>250,000 psi	ASTM D-790

HOW SUPPLIED:

PrimeLiner -Lt Blue Epoxy Systems for CIPP (Cured In-Place Pipe) with listed hardeners are available in 5 gallon pails, 55 gallon drums, and 265 gallon IBC's.

SAFETY PRECAUTIONS:

Health Considerations: Consult the PrimeLiner Safety Data Sheets.
This chemical system requires the use of proper safety equipment and procedures. Please follow the PrimeLiner product MSDS and Safety Manual for detailed information and handling guidelines.

For Your Protection:
The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of PrimeLine Products, Inc.. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by PrimeLine Products, Inc. will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, **PrimeLine Products, Inc. makes no warranty of any kind, express or implied,** other than that the material conforms to its applicable current Standard Specifications. PrimeLine Products, Inc. hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of PrimeLine Products, Inc. for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

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