

SELECTION & SPECIFICATION DATA

Generic Type	Polyamide Epoxy with corrosion inhibitor, (zinc phosphate)
Description	A high-performance, high build, chemical, and corrosion-resistant, UL category XKXC2 approved epoxy mastic topcoat optimized for use in Thermo-Lag E100 and Thermo-Lag 3000 series fire resistive applications required to meet class I-A criteria per ANSI/UL 2431. It demonstrates outstanding adhesion and offers maximum protection against severe weather conditions, corrosion, moisture penetration, and general industrial environments.
Features	<ul style="list-style-type: none"> • UL Category XKXC2 Approved Topcoat for use in Fire Resistive Applications • Class A Fire Retardant • Excellent Corrosion Protection • VOC Emissions Compliant per CDPH Standard Method v1.2 • Excellent Wetting Properties • High Film Build • Outstanding Durability • Exceptional Flexibility and Impact Resistance • Outstanding Abrasion Resistance • Excellent Chemical Resistance
Color	<ul style="list-style-type: none"> • 1786 Grey • F728 Grey
Finish	Semi-Gloss
Dry Film Thickness	5 - 7 mils (127 - 178 microns) per coat Please refer to individual Thermo-Lag E100 and Thermo-Lag 3000 Series XR certifications listed in UL File No. XKXC2.R40029 for minimum protection thickness requirements.
Solid(s) Content	By Volume 86% +/- 2%
Theoretical Coverage Rates	276 ft ² /gal at 5.0 mils (6.8 m ² /l at 125 microns) 138 ft ² /gal at 10.0 mils (3.4 m ² /l at 250 microns) Allow for loss factors for both mixing and application.
VOC Value(s)	Per EPA Method 24: 0.79 lbs/gal (95 g/l) These are nominal values and may vary slightly with color. This product contains US EPA VOC-exempt solvent(s).
Dry Temp. Resistance	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C)

SUBSTRATES & SURFACE PREPARATION

General	Surfaces of the Thermo-Lag E100 and Thermo-Lag 3000 series must be clean, dry, and sufficiently cured before the topcoat application of Carbomastic 94 TL. Please refer to the Thermo-Lag E100 and Thermo-Lag 3000 PDS and Application Manuals for information on minimum and maximum curing requirements. Employ adequate methods to remove dirt, dust, oil, and all other contaminants that could interfere with the adhesion of the coating per SSPC-SP 1.
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Carbomastic[®] 94 TL

PRODUCT DATA SHEET



MIXING & THINNING

Mixing	Thoroughly mix each component using mechanical agitation. Pour the activator, part B, into part A (mixing ratio by volume: 1 part activator, part B, to 1 part base, part A) and mix well using mechanical agitation.
Thinning	Mixed Carbomastic 94 TL may be thinned to a maximum of 25 fluid ounces per gallon with Thinner 225 E, Thinner 236 E, or Thinner 243 E. Use of solvents other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.
Pot Life	Maximum 4 hours at 77 °F (25 °C). In order to maintain application properties, mix (activate) only what can be applied in 4 hours. Allow 15 minutes induction time at 77 °F (25 °C).

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General)	Apply using airless spray. Use a 50% overlap with each pass when spraying to eliminate holidays and pinholes.
Airless Spray	Material Hose: 3/8" I.D. (min.) Tip Size: 0.019-0.023" Output PSI: 3000 minimum High Pressure Filter: 30 Mesh
Brush	Natural bristle or nylon/polyester
Roller	1/4-3/8" woven, solvent resistant core for smooth surfaces, 3/4- 1 1/4" nap for rough surfaces.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	90°F (32°C)	110°F (43°C)	110°F (43°C)	100%

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Recoat	Dry to Touch
50°F (10°C)	20 Hours	20 Hours	10 Hours
60°F (16°C)	12 Hours	12 Hours	6 Hours
75°F (24°C)	6 Hours	6 Hours	3 Hours
90°F (32°C)	3 Hours	3 Hours	90 Minutes

Expect longer dry times in periods of higher humidity or lower temperatures or when applying thicker films. These dry times are for exterior exposures at recommended film thickness with good ventilation. The temperature of the substrate during coating application must be at least 5 °F above the dew point of the air. * Note: Dry to recoat is 6 hours or within 1 year.

CLEANUP & SAFETY

Cleanup	Clean up all tools and equipment promptly with Thinner 2.
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CLEANUP & SAFETY

Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.
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PACKAGING, HANDLING & STORAGE

Shelf Life	Carbomastic 94 TL Part A: 36 months Carbomastic 94 TL Part B: 36 months *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Storage Temperature & Humidity	40-110 °F (4-43 °C) (Can be stored down to 20 °F (-7 °C) for no longer than 30 days) 0-100% Relative Humidity
Storage	Store Indoors.
Shipping Weight (Approximate)	2-Gal Kit - 29 lbs 10-Gal Kit - 139 lbs
Flash Point (Setaflash)	Part A - 89 °F (32 °C) Part B - 105 °F (41 °C)

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.