

Selection & Specification Data

Generic Type A two component, epoxy based, thermally activated, intumescent coating for the fire protection of structural steel.

Description Thermo-Lag[®] 3000 P is designed to fireproof steelwork for up to a 4 hour fire rating, depending on the design. The recommended use for this product is fireproofing of steel beams, columns, tubes, pipes, vessel skirts, bulkheads, underdecks and electrical raceways.

- Features**
- UL listed – designs for many types of steel sections up to 4 hours fire rating for both interior and exterior environments.
 - Durable finish – provides a hard, durable finish resistant to normal wear
 - Thin film coating – offers an economical solution to alternative fireproofing
 - VOC compliant
 - Easy repair – if damaged it can be repaired easily using material as putty.

Primers Thermo-Lag[®] 3000 P should be applied over a compatible primer. A number of primers have been tested and are compatible as listed below:
 Carboguard[®] 888 Carboguard 893SG
 Carboguard[®] 890 Carbomastic[®] 242
 Carbozinc[®] 858 Carbomastic[®] 15
 Carbozinc[®] 859
 Rustbond[®] (Interior applications only)
 Carbozinc[®] 11/Rustbond[®]
 Carbozinc[®] 11/Carboguard[®] 893 SG

If the steel has already been coated with another primer, refer to Carboline Technical Service for advice before applying Thermo-Lag[®] 3000 P. Thermo-Lag[®] 3000 P should be applied over properly prepared surface. Surface preparation should be carried out in accordance with the application instructions for the selected primers. The

thickness range for primers used under Thermo-Lag[®] 3000 should be 3-5 mils (75-125 microns) DFT per SSPC-PA2.

Selection & Specification Data (cont.)

Mesh Use High Temp Mesh or FP-Fiberglass Mesh depending on the design.

Topcoats For interior “conditioned space” use, topcoats are optional. For interior “general purpose” and exterior use, topcoats are required. Once Thermo-Lag[®] 3000 P has been applied to the specified DFT and is fully cured, it must be topcoated with a UL approved topcoat system. The choice of topcoat will depend on project requirements. For options contact Carboline Technical Service.

Dry Film Thickness Typical DFT is between 120-500 mils (3-13 mm)

Limitations Not recommended for steelwork subject to long-term surface temperatures over 175°F (79°C) in normal use.

Physical Data (Typical Values)

Color	Part A (Light Gray) Part B (Black)
Finish	Textured
Specific Gravity	Part A: 1.26 Part B: 1.36
Volume Solids	100%
V.O.C. (EPA Method 24)	As supplied: 0.11lbs./gal.(13 g/l)
W.P.G.	Part A: 10.5 lbs.± 5% Part B: 11.4 lbs.± 5%
Mixing Ratio (by volume)	1:1
Pot Life	Use only plural component spray equipment
Cure Time (@ 77°F / 50% R.H.)	Recoat: 30 minutes Touch: 1-4 hours Handle: 24 hours Topcoat: 10 hours
Durometer Hardness	Shore D: 50 (fully cured) Shore D: 40 (for topcoating)
Film Build (Spray)	80-200 mils (2-5 mm)
Flash Point	Part A: 185°F(85°C) Part B: >200°F(>93°C)

Thermo-Lag® 3000 P

Testing / Certification / Recognition

Underwriter's Laboratories, Inc. (UL)
Intertek Laboratories, Inc.
Lloyd's Register of Shipping (LRS)
Det Norske Veritas (DNV)
American Bureau of Shipping (ABS)
Southwest Research Institute (SWRI)

UNDERWRITERS LABORATORY, INC.

Thermo-Lag® 3000 P has been tested in accordance with ASTM E-119 and UL 1709 in the Underwriter's Laboratory, Inc. It is listed by UL for the following designs:

Design Number (UL)

XR 618 Columns
XR 620 Columns
XR 621 Columns
N 608 Beams

CITY OF NEW YORK – DEPT. OF BUILDINGS

Thermo-Lag® 3000 P has been found acceptable for use in Class I and Class II Buildings in accordance with the following report number:

MEA 64-01-M Vol.II

CITY OF LOS ANGELES – DEPT. OF BUILDING & SAFETY RESEARCH

Report: RR25484

FACTORY MUTUAL APPROVAL

Project ID: 3029584

Packaging, Handling & Storage

Shipping Weight (Approximate)	Weight per gallon is 11 lbs. Weight per 5 gallons is 55 lbs. Weight per truckload is 40,000 lbs.
Full Kits	9.0 gal.
Storage (General)	Store indoors, off the ground, in dry environment.
Storage Temperature	32°F (0°C) – 100°F (38°C)
Shelf Life	9 Months

***Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**



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April 2010 replaces January 2009

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