

Thermo-Lag® 3000 Architectural



A two component, architectural grade, epoxy based intumescent fireproofing coating which is spray applied directly to primed steel surfaces. Thermo-Lag 3000 is used to provide 1-3 hour cellulosic fire ratings for structural steel beams, columns, tubes, pipes, bulkheads and electrical raceways.

PRODUCT DETAILS Thermo-Lag 3000 cures to a tough, durable, protective finish that withstands handling, transport and job site fabrication. Low coating thickness allows for aesthetically pleasing industrial finishes for exterior and interior applications.

When exposed to fire, Thermo-Lag 3000 intumesces, forming an expanding, heat blocking char layer which protects structural steel beams, columns and vessel skirts from collapse for a specified amount of time. The fire rating provided by Thermo-Lag 3000 is determined by the applied thickness, steel shape and steel mass.

APPLICATIONS

COMMERCIAL BUILDINGS
FACTORIES & WAREHOUSES
CONVENTION CENTERS
AIRPORTS TERMINALS
MUSEUMS
SCHOOLS

FEATURES

- › Rated by Intertek for 1, 2 and 3 hour ratings for restrained and unrestrained beams, I-section and tubular columns
- › Ratings for a wide range of W/D's and A/P's
- › Most efficient epoxy based intumescent coating in the industry based on ASTM E119 testing
- › Successfully passed the Underwriter's Laboratories Environmental Test Program for exterior and interior use
- › Lowest applied weight of any exterior rated epoxy intumescent coating for the same level of fire protection
- › Low flame spread and smoke development - Class A (ASTM E84)
- › Rugged, durable material that can be shop or field applied
- › Available in 100% solids and 95% solids versions

Thermo-Lag[®] 3000 Architectural

Quality Product Backed by Quality Service

- › Carboline Company has been solving tough corrosion and fireproofing problems since 1947
- › Industrial service centers and sales offices located around the world
- › Over 20 worldwide manufacturing locations with a global network of sales and technical support
- › Industry leading field service and technical engineering support team
- › Certified to ISO 9001

Reasons To Use Thermo-Lag 3000

PERFORMANCE FEATURE	ADVANTAGE	BENEFIT
Low thickness requirements	Most efficient epoxy based intumescent coating based on ASTM E119 cellulosic fire ratings	Less material required to achieve fire rating
1:1 mix ratio	Easy to maintain proper mix ratio, visual ratio check	Avoid off ratio application, time and labor savings
High durability and toughness	High impact resistance	Longer service life, damage resistant

Physical Properties Thermo-Lag 3000

Spray Density ¹	81 pcf (1.29 g/cm ³)
Weight Per Gallon	11 lbs (4.9 kg)
Solids by Volume	100% and 95% versions
VOC (EPA Method 24)	0.11 (13 g/l)
Compressive Strength (ASTM D695)	2,190 psi (15.1 MPa)
Tensile Strength (ASTM D638)	36,700 psi (253 MPa) (modulus)
Flexural Strength (ASTM D790)	2,253 psi (15.5 MPa)

Bond Strength (ASTM D4541)	300 psi (2.1 MPa) (minimum)
Hardness (ASTM D2240)	Shore D 50
Mix Ratio	1:1
Film Build	60-120 mils (1.5-3 mm) per coat
Application Method	100%: plural airless application, trowel 95%: standard airless application, trowel
Pot Life	100%: N/A (plural airless application) 95%: 30 minutes @ 70°F (21°C)
Recoat Time / Topcoat Time	100%: 30 minutes / 10 hours 95%: 4 hours / 48 hours

*All values derived under laboratory conditions



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