THERMO-LAG 3000

Liquefied Petroleum Gas Installations
Fire Protection For Tanks And Spheres Storing Flammable Liquids

Material Description
THERMO-LAG 3000 is an intumescent, two component, epoxy based fire resistive coating which is spray applied directly to primed tank and sphere surfaces.

THERMO-LAG 3000 cures to a tough, durable, protective finish. Low coating thickness allows for an aesthetically pleasing industrial finish.

Basic Use
THERMO-LAG 3000 is applied to pressurized or non-pressurized tanks and spheres to provide hydrocarbon pool fire ratings for 1-4 hour protection.

FEATURES AND BENEFITS:
- Successfully passed the UL 1709 Fire and Environmental Test Program
- Lowest applied thickness of any epoxy based PFP product in the world market
- Corrosion and long term fire protection in one system
- Rugged and durable
- High flexural strength
- Explosion resistant
- Resistant to torch / hose stream impingement per NFPA 58, Annex H

INDUSTRY STANDARD FOR LPG INSTALLATIONS

Product Data: All values based on THERMO-LAG 3000 P

Generic Type: THERMO-LAG 3000 is a Two Component, Epoxy Based, Intumescent Fire Resistive Coating

Percent Solids: 100% (95% versions available upon request)
Color:
Part A: Light Gray
Part B: Dark Gray

Application Method:
Must be applied by trained applicators. Specialized plural component equipment for 100% solids and single component airless equipment for 95% solids is recommended.

Mixing Ratio by Volume: 1:1
Pot Life @ 77°F (25°C): 30 minutes (95% solids)
Cure time @ 77°F (25°C):
Recoat: 30 minutes
Touch: 1-4 hours
Handle: 24 hours
Topcoat: 12 hours

Storage Temperature: 100°F (38°C) Maximum
ADVANTAGES:
- 3 step epoxy coating system
- Lowest thickness required to meet API Standard 2510
- Significant reduction in application time
- Successful global use for over a decade

HYDROCARBON FIRE RATINGS

<table>
<thead>
<tr>
<th>Testing Agency</th>
<th>Rating</th>
<th>Thickness</th>
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<tbody>
<tr>
<td>UL 1709</td>
<td>1-1/2 Hour</td>
<td>0.210” (5.3 mm)</td>
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Additional UL 1709 testing for 1 through 4 hour ratings is available based on THERMO-LAG 3000 Design No. XR 618.

LLOYD’S REGISTER OF SHIPPING (LRS) AND DET NORSKE VERITAS (DNV) CERTIFICATION

THERMO-LAG 3000 is certified by Lloyd’s Register of Shipping (LRS) and Det Norske Veritas (DNV) for a wide variety of structural steel sizes ranging from Hp/A 30 to 250 (W/D .54 to 4.5) based on the hydrocarbon time/temperature curve. The certificates specify the THERMO-LAG 3000 thickness required to limit the steel core temperature to 200°C to 750°C (392°F to 1382°F) for 1, 2 and 3 hour ratings on a wide variety of HP/A’s (W/D’s).

UNDERWRITERS LABORATORIES, INC. 1709 ENVIRONMENTAL TEST PROGRAM

THERMO-LAG 3000 was exposed to accelerated aging, high humidity, industrial atmosphere, salt spray and combined wet, freeze and dry cycles followed by the UL 1709 fire endurance test with successful results.

EXPLOSION AND TORCH / HOSE STREAM IMPINGEMENT

THERMO-LAG 3000 was exposed to full scale explosion testing with successful results. This test demonstrated the ability to withstand a 1.43 bar explosion loading.

APPLICATION STEPS

1. Grit blast to SSPC-SP6
2. Apply approved epoxy primer
3. First coat of THERMO-LAG 3000
4. Apply FP-Fiberglass Mesh
5. Final coat of THERMO-LAG 3000 to specified thickness
6. Apply approved topcoat system

Follow the the published installation instructions (latest addition) at all times

For additional information please contact:
Carboline, 2150 Schuetz Rd. St. Louis, MO 63146
Phone: 800-848-4546; Fax: 314-587-2691; www.carboline.com