

PRODUCT DESCRIPTION

THERMO-LAG 3000 is a two component, epoxy based, thermally activated, subliming coating, which is spray applied directly to primed steel surfaces. It provides a hard, durable aesthetically pleasing finish that allows the shape of the steel to be maintained while providing the specified level of fire resistance.

BASIC USE

THERMO-LAG 3000 is applied to structural columns, beams, vessel skirts, bulkheads, underdecks and electrical raceways to provide hydrocarbon and cellulosic fire ratings for 1 through 4 hours protection. It can be utilized for interior and exterior environments.

TESTING / CERTIFICATION / RECOGNITION

Underwriters Laboratories, Inc. (UL)
Omega Point Laboratories, Inc. (OPL)
Lloyd's Register of Shipping (LRS)
Det Norske Veritas (DNV)
American Bureau of Shipping (ABS)
Southwest Research Institute (SwRI)
Many Leading Oil and Petrochemical Companies

APPLICATION CONDITIONS

Air and substrate temperature:
above 41°F (5°C) and rising
5°F (3°C) above dew point
Humidity: not greater than 85%
(Provide heat and/or dehumidification if needed.)

PACKAGING / SHIPPING

4.5 Gallon (US) Kits (partially filled pails)
9.0 Gallon (US) Kits (full pails)

STORAGE CONDITIONS

Store off ground, above 32°F (0°C), below 100°F (38°C) and out of direct sunlight. Prior to spraying, temperature of **THERMO-LAG 3000** must be a minimum of 70°F (21°C). Refer to the Nu-Chem's application manual, pre-application checklist (latest edition) and terms and conditions for additional information.

PHYSICAL DATA

Solids 95%

Net weight per gallon (lbs)

Part A 10.8 ± 5%
Part B 11.2 ± 5%

Mixing Ratio (by volume) 1:1

Cure Time @ 77°F (25°C) and 50% R.H.

Recoat 1 - 5 hours
Touch 1 - 4 hours
Handle 48 hours
Topcoat 48 hours

Color

Part A Light Gray
Part B Black
Mixed Gray

Consistency Heavy Mastic

Finish Textured

Pot Life 20 - 30 minutes @ 77°F (25°C)
15 - 20 minutes @ 100°F (38°C)

V.O.C.

Part A 0.52 lb/gal (62 g/l)
Part B 0.47 lb/gal (56 g/l)

Flash Point

Part A 84°F (29°C)
Part B 84°F (29°C)

Shelf Life 9 Months

APPLICATION SUMMARY

- Grit blast to:
SSPC-SP6 (Sa2) Onshore
SSPC-SP10 (Sa2-1/2) Offshore
- Apply approved primer
- First coat - **THERMO-LAG 3000**
- Apply Fiberglass or High Temperature Fabric reinforcement – depending on design
- Final coat - **THERMO-LAG 3000** to specified thickness
- Apply approved topcoat

Refer to Nu-Chem's application manual and pre-application checklist (latest edition) for more detailed instructions.

SINGLE COMPONENT EQUIPMENT

Minimum equipment required to apply **THERMO-LAG 3000 (95%)** includes:

Spray Equipment:

Must use a 45:1 King, 67:1 Premier or 74:1 Premier with a minimum 1" outlet on high pressure side

A hopper feed is required.

Compressor: Large enough to run pump and deliver consistent air supply

Spray Gun:

Binks 1M Mastic Airless Gun or equivalent
Remove fluid tube - replace with a gun swivel.
Install Graco tip adapter. Gun must have a non-diffuser seat

Spray Tips:

Graco Heavy Duty RAC (gray key non-diffuser, non-cateye type)

Size: 0.035" to 0.065"
revers-a-clean or equal

Fan Pattern: 6" to 10"

Note: RAC adapter must be used with Graco spray tips on a Binks gun)

Hoses:

Delivery: 3/4" ID minimum (solvent resistant) 50 ft maximum

Whip: 1/2" ID minimum (solvent resistant) 20 ft maximum

Refer to Nu-Chem's pre-application checklist (latest edition) for more details.

PLURAL COMPONENT EQUIPMENT

THERMO-LAG 3000 (95%) may also be applied using plural component equipment. See **THERMO-LAG 3000 (100%) Application Guide**

THINNERS

Toluene

CLEAN UP

Pump, (single component), Gun, and Tips:
Toluene, MEK, MIBK, or Xylene

SAFETY PRECAUTIONS

This product must be installed by trained and certified applicators in accordance with the advice given on this sheet, application manual (latest edition) and Material Safety Data Sheet (MSDS).

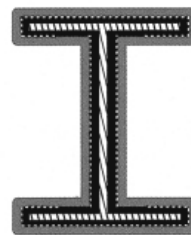
All work involving application and use of this product should be performed in compliance with all relevant national and local health, safety and environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate exhaust ventilation.

Consult Nu-Chem for any further questions or advice.

DISCLAIMER

The technical data contained in this data sheet is accurate to the best of our knowledge. No warranty is expressed or implied. For specific warranty information, refer to Nu-Chem's terms and conditions, a copy of which can be obtained upon request.



THERMO-LAG 3000 Protected Steel Column