

Thermo-Lag 220

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type

A single component, water based, intumescent fire resistive coating which is applied directly to interior wood substrates.

Description | Thermo-Lag® 220 is designed to limit the spread of flame across interior wood substrates.

- Class A fire hazard classification from ASTM E84 testing at Underwriter's Laboratories, Inc.
- · Durable finish provides a hard, durable finish resistant to normal wear

Features

- · Thin film coating
- VOC compliant
- Easy repair if damaged, it can be repaired easily using a brush or roller

Color | Antique White

Finish | Flat

Primer No primer required. Thermo-Lag® 220 should be applied directly to a clean wood substrate.

Application of two coats at 4 mils (100 microns) wet is recommended.

Wet Film Thickness

*During the drying process, the coating will shrink due to the evaporation of water. In order to calculate the wet film thickness required, the following formula can be used: WFT=(DFT/Volume Solids)x100

Fireproofing Dry Film Thickness

4.5 mils DFT

Solids Content | By Volume 56%

VOC Values | As Supplied : 1.05 lbs/gal (126 g/l)

Topcoats | No topcoat required

SUBSTRATES & SURFACE PREPARATION

All surfaces must be clean, dry and free of oil, grease, dirt, dust or other materials which would impair the bond of Thermo-Lag® 220 to the substrate.

MIXING & THINNING

Mixer Use 1/2" electric or air driven drill with a slotted paddle mixer (300 rpm under load).

Mixing

Thermo-Lag® 220 must be mixed using a 1/2" electric or air driven drill with a slotted paddle or Jiffy mixer blade. Mix material for a minimum of 5 minutes to achieve the necessary texture required before spraying.

Thinning Do not thin.

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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.

Airless Spray

Use 1.0 gal. per minute electric airless (minimum) to provide an operating pressure of 3000 p.s.i. (320 kg/cm2). Must have 30 mesh inline filter installed. Remove rock catcher from siphon tube.

Spray Gun | Silver Gun with gun swivel, Contractor Gun (with filter removed) or equilavent

Spray Tips | 0.015" - 0.017" (Use Graco heavy duty RAC non diffuser tips and housing)

Fan Size | 4"-10" (depending on section being sprayed)

Hose Length | 150' (45 m)

Material Hose | 3/8" I.D. minimum

Whip Hose | 1/4" I.D. minimum (optional)

2 coats per day

APPLICATION PROCEDURES

Airless Spray

It is recommended to apply two thin coats at 4 mils (112.5 microns) wet rather than one thick coat. The first coat must be dry before applying the second coat.

At an ambient temperature of 70°F (21°C), the following application rates are applicable:

4 mils (100 microns) per coat (wet)

Application Rates

4 hours of dry time between coats

*Two 4 mils coats (wet) will dry to a final DFT of 4.5 mils to meet a class A rating on Douglas Fir.

Wet Film Thickness

Frequent thickness measurements with a wet film gauge are recommended during the application process to ensure uniform thickness.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	21°C (70°F)	5°C (41°F)	5°C (41°F)	0%
Maximum	38°C (100°F)	38°C (100°F)	41°C (105°F)	85%

CURING SCHEDULE

Surface Temp.	Handle	Recoat	Touch
25°C (77°F)	24 Hours	4 Hours	4 Hours

Drying Time will vary with temperature and humidity conditions. Air movement and thinner coats will assist drying.

CLEANUP & SAFETY

Cleanup | Pump, Gun, Tips and Hoses and mixer should be cleaned at least once per day with water.

Safety

Follow all safety precautions on the Thermo-Lag® 220 Material Safety Data Sheet. It is recommended that personal protective equipment be worn including spray suits, gloves, eye protection and respirators when applying Thermo-Lag® 220.



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CLEANUP & SAFETY

Overspray | All adjacent and finished surfaces shall be protected from damage and overspray.

Ventilation In enclosed areas, ventilation shall not be less than 4 complete air exchanges per hour until the material is dry.

MAINTENANCE

General | Damaged areas should be touched up or repainted by airless spray, brush or roller.

TESTING / CERTIFICATION / LISTING

Underwriters Laboratories, Inc.

Tested in accordance to ASTM E84 at Underwriter's Laboratories, Inc.

PACKAGING, HANDLING & STORAGE

12 Months

Shelf Life

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

Shipping Weight (Approximate)

11 lbs. per gallon

Storage | Store indoors in a dry environment between 32°F - 100°F (0°C - 38°C). Protect from freezing.

Packaging | 5 gallons

WARRANTY

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