

FIRE Retardants Inc.TM *The Decision You Make May Save A Life!*

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Visit Our Web Site at www.fireretardantsinc.com

BURN BARRIER NO. 70

**(Fire Retardant Intumescent Mastic)
For Cable Fire Protection**

**(Grouped Electrical, Control & Communication
Cables and their supporting trays)**

DESCRIPTION:

A specially formulated asbestos free, water base, reinforced thermal insulating intumescent mastic coating, that affords maximum fire protection to grouped electrical, control & communication cables, and their supporting trays; used wherever it is either necessary or desirous to increase the cable's fire endurance time, minimize the propagation of fire along the cable surface, and reduce the out-gassing of toxic smoke that may contain highly corrosive compounds. When exposed to fire or high heat, the coating intumesces (puffs up), and forms a thick, dense, firm foam layer, shielding the cable, reducing the penetration of heat through its thermal insulating properties, thereby minimizing decomposition of the cable jacket. Fire tested in accordance with IEEE-45, IEEE-383, and ASTM E-84 (UL-723, ULC CAN 4-S 102, NFPA-255, ANSI 2.5, and UBC 8-1).

RECOMMENDED USES:

Fire protection of grouped electrical, control & communication cables, and their supporting trays.

USED BY:

- Nuclear and fossil fuel power generating plants
- Utility companies
- Communication companies
- Ship builders
- Factories
- Steel mills
- Foundries
- Pulp and Paper mills
- Hospitals
- Hotels
- Aircraft and Aerospace industries
- Railroad and other transportation companies
- Oil and chemical installations
- Military installations and other installations where grouped cables are utilized.

PERFORMANCE INFORMATION:

- * Fire tested per IEEE 45 for shipboard use.
- * Fire tested per IEEE 383 for power generating facilities.

- * Class "A" rating per ASTM E-84 (UL-723, ULC CAN 4-S 102, NFPA 255, ANSI 2.5, and UBC 8-1).
- * Smoke Classification: Very light to no smoke.
- * Effect on Ampacity: Current reduction at temperature stability, less than 1 %.
- Cures at room or elevated temperature.
- Cures by water evaporation to form a tough, hard, flexible film.
- Will not leach (lose fire retardancy) on exposure to high humidity.
- Resistant to deterioration from temperature changes, flexing, impact and vibration.
- * Approved for shipboard use by; American Bureau of Shipping, New York, NY
- Can be overcoated (topcoated) with BURN BARRIER No. 40-40A Underwriter's Laboratories of Canada Class "A" Rated Latex Fire Resistant Coating.

* Complete test reports and certifications available upon request.

CHARACTERISTICS:

- Finish** Flat, light textured finish
- Color** Off-White or special colors made to order
- Spreading Rate** 25.6 sq. ft./gal. (0.63 m²/L)
1/16" wet (62 mils) wet
approximately 3/64" (46 mils) dry
(1.59 mm wet, approx. 1.19 mm dry)
- Volume Solids** 50% ± 2
- Weight Solids** 62% ± 2
- Drying Time @ 77°F & 50% RH:**
To touch 1 - 2 hours
To handle 3 - 4 hours
To top coat 16 hours
Full hardness 48 hours
- Type of Cure** Water evaporation
- Flash Point** No flash to boiling (closed cup)
- Reducer/Cleaner** Water
- Shelf Life** 6 months (unopened)
- Packaging** 1 & 5 gal. containers weight/gal. 10.8 lbs.
- Shipping weight** 4 gals - 46 lbs.
5 gals - 57 lbs.

Application Spray or brush

SURFACE PREPARATION:

All dirt, oil, grease, and other foreign matter must be removed. Mask off all surfaces not designated for coating.

APPLICATION

Using a power mixer, thoroughly mix material. Should thinning be necessary, use ONLY water. Can be applied by spray or brush; however, spray application is recommended, as a more uniform coverage can be obtained. (READ "PRECAUTION" section before applying.) Apply to achieve a minimum wet film thickness of 1/16 inch [62 mils (1.59 mm)]. This will give a dry film thickness of approximately 3/64 inch [46 mils (1.19 mm)]. Care must be taken to ensure that all surfaces are properly coated. All overspray must be cleaned up immediately.

APPLICATION EQUIPMENT:

Hopper Gun

- Gun & Hopper .. Goldblatt or equivalent
- Nozzle 3/32 inch (2.4 mm)
- Orifice Plate 3/16 inch (4.8 mm)
- Air Pressure 20 to 25 psi
- Reduction Up to 10%

Airless Spray

- Pump Graco 30-1 bulldog
- Strainer None (remove)
- Fluid hose , 1/2 inch (12.7 mm) minimum
- Gun Graco mastic golden gun equipped with swivel handle
- Tip Reverse-a-clean
- Orifice size045 to .065 inch (1.14 mm to 1.65 mm)
- Fluid pressure Low pressure to avoid blasting off material already applied
- Reduction Up to 10%

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PRECAUTIONS:

Avoid breathing vapors or spray mist.
Close container after use. Avoid
contact with skin. Do not take
internally. USE WITH ADEQUATE
VENTILATION.

CAUTION - CAUTION

This product contains water, and will
conduct electricity until thoroughly
dry. Extreme caution must be
exercised when the material is being
applied, and until the coating is
thoroughly dry.

**Read MSDS before opening
containers.**

**KEEP OUT OF REACH OF
CHILDREN**

APPROVED by and COMPLIES With the following flammability standards

American Bureau of Shipping
New York, NY, U.S.A. Certificate No. FR738508

China Corporation
Register of Shipping
Taipei, Taiwan, R.O.C. Certificate No. 328-06-5

American Standard
Testing Method E-84 Rated Class "A"
(UL-723, ULC CAN 4-S 102, (Flame Spread Rating 8.3)
NFPA-255, ANSI 2.5, and UBC 8-1)

IEFF-45 Recommended practice for electric
installations on shipboard

IEFF-383 Standard for type test of Class IE
Electric cables, field splices and
connections for nuclear power
generation stations

Information provided herein is based
on tests believed to be reliable. In as
much as we have no control over the
use or application to which others may
put this material, we make no
guarantee or warranty. This product is
sold on the condition that each user of
the material makes their own
evaluation to determine the material's
suitability for their own particular use.

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