



# VIMASCO CORPORATION

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## CABLE COATING 3i

Passes:  
IEC 60331-11, IEEE-383  Approved

## INTUMESCENT FIREPROOFING COATING FOR CABLES

Cable Coating 3i is a heavy-bodied, water-based intumescent coating which is designed to prevent flame spread along the jacketing of electrical (or other) cables and to provide a thermal barrier for protection against heat damage. CC3i will also prevent a short circuit within an electrical cable from starting a fire and will help identify the location of such a short circuit by forming an intumescent char at the spot. CC3i can be applied to grouped cables or single cables.

Cable Coating 3i is a unique acrylic latex emulsion which has excellent resistance to weathering and aging and which remains flexible indefinitely allowing for cable movement and removal. It is highly UV resistant and suitable for outdoor as well as indoor applications.

Cable Coating 3i is approved by Factory Mutual at our recommended dried film thickness of 1/16<sup>th</sup> inch and it does not require cable derating (see complete Factory Mutual Test Report). It passes IEC 60331-11 tests at 750°C and 1100°C.

Cable Coating 3i forms a protective intumescent char when exposed to flame or to a temperature above 350°F. This char should be removed completely and clean cables should be recoated if intumescence should occur.

Cable Coating 3i is easily applied by brush or spray and it adheres well to cables, allowing for vertical or overhead application. Care should be taken to see that cables are clean and dry before application, particularly that they are free of oil, grease and grit. Cable Coating 3i should be applied in 2 coats to ensure complete coverage.

NOTE: CC3i MUST BE PROTECTED FROM FREEZING DURING STORAGE. During application, it must be protected from freezing, moisture, oil, grease, and foot traffic until it is thoroughly cured.

### Accelerated UV Testing

ASTM G155/D2565. Equivalent to 5 years of desert conditions: slight yellowing in color but no cracking, loss of flexibility or damage to the coating. Results considered excellent.

### COLOR

White, Yellow, Gray, Black, (Special colors available upon request)

### COVERAGE (ASTM C 461)

14 sq. ft./gal. @ 1/16" dry  
(.34 m<sup>2</sup>/liter @ 1.59 mm) (actual flat surface coverage)

Note: Because of the irregular surfaces, a nominal square foot of cable tray, when loaded with cables, will present more than a square foot of surface area to be coated.

### DRYING TIME (ASTM D 1640)

To touch: 2 hours Through: 24 to 48 hours  
(Dependent upon substrate and ambient temperature and relative humidity)

### WEIGHT PER U.S. GALLON (ASTM D 1475)

9.9 pounds (4.5 kg)

### SOLIDS

62% by weight 53% ± 2% by volume

### APPLICATION TEMPERATURE RANGE

40°F (4°C) to 110°F (43°C)

### APPROVALS / FIRE TESTS

**IEC 60331-11 (60331-21): at 750° C voltage up to 500v-rms (90 min.)**

**IEC 60331-11 (60331-21): at 1100° C voltage up to 600v-rms**

ASTM E 84: Flame Spread: 15 ASTM E 162: Flame Spread: 16

Approved under Factory Mutual test requirements

@ 1/16" dry film (1.59 mm)

Passes IEEE-383 flame propagation test (full test report available upon request)

Will not support combustion in wet or dry state.

### INTUMESCENCE

600% to 700% typical after 10 minute exposure to 1600°F

### RADIOACTIVITY DECONTAMINATION FACTOR

(ASTM D 4256-83 and ANSI 5.12-1974)

5.83 after 10 weeks curing time

### VOLATILE ORGANIC COMPOUND CONTENT (VOC)

10 g/L (.08 lbs/gal) tested per EPA Method 24

### MEETS REQUIREMENTS FOR LEED CREDIT 4.1

### CLEANUP

Wet state – water Dry state - safety solvent

### RECOMMENDED SHELF LIFE

18 months in unopened container @40°F (4°C) to 90°F (32°C)  
(when properly stored)

### CAUTION

The addition of water or any thinning agent to this product will change its physical properties and will adversely affect its performance. No expressed or implied warranty will be offered on applications where this product has been thinned or altered in any manner.

In accordance with OSHA Standard 29 CFR 1910.12 (Right to Know Law) a Material Safety Data Sheet is available for this product and all Vimasco products

**ALL VIMASCO PRODUCTS ARE ASBESTOS FREE AND CONTAIN NO LEAD OR MERCURY COMPOUNDS.**

Vimasco products are designed to meet the needs of specific situations. They are warranted to be effective for their intended uses only. No further warranties are expressed or implied. The methods and condition of applications over which we can exercise no control are important factors in the performance of our products. We make specific recommendations for the application and use of all Vimasco products, but we cannot enforce our recommendations upon users; therefore it is necessary that we state, as a condition of sale of our products, that we will replace or refund the purchase price of any Vimasco products found by our laboratories to be defective but that we assume no responsibility beyond the purchase price of the materials. No representative of our Company, Distributor or Agent has any authority to change or extend this condition of sale.