

Product Overview

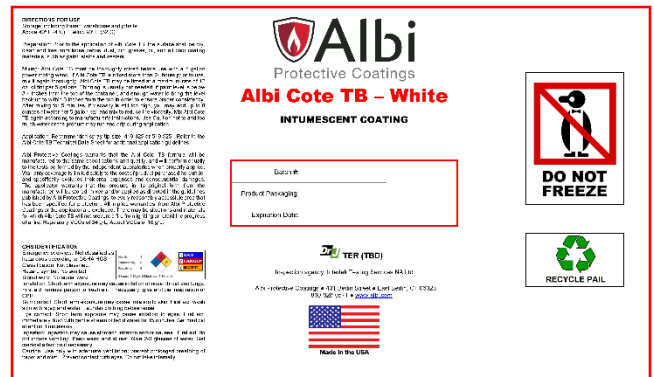
Albi Cote TB by Albi Protective Coatings is a thin film intumescent coating certified in accordance with International Building, International Residential, and NFPA Life Safety 101 standards. Upon exposure to elevated temperatures or flames, Albi Cote TB undergoes intumescence, forming a char barrier that shields the treated materials against fire. It is produced in adherence to ISO 9001 standards and is specifically intended for application on spray polyurethane foam insulation to meet stipulated fire safety criteria.

- **WHO WE ARE**

- Albi Protective Coatings' intumescent coatings offer the essential, code-approved fire safety solutions for both new constructions and existing residential and commercial buildings. In extreme heat or fire situations, our intumescent coatings expand to several times their original size, creating a charred layer that substantially slows down the substrate's combustion rate.
- Tailored for professional use, our product is designed for a hassle-free, single-spray application. It features a water-based, low VOC emission composition and comes in a variety of shades, including white and various MTO colors.

- **PRODUCT DETAILS**

- **Color Options:** White, Gray, and various MTO colors
- **Finish:** Matte
- **pH Range:** 7-8
- **Application Method:** Refer to Best Practices for Application
- **Layer Thickness:** Consult Code and Compliance Reports
- **Drying Period:** Between 60 to 90 minutes
- **Top Coating:** Compatible with water-based coatings having a pH of 7-8
- **Safety Info:** Albi Cote TB Safety Data Sheet available
- **VOC Concentration:** 18 g/L
- **VOC Compliance:** Meets CDPH (CA Spec 01350) standards



- **STORAGE AND PACKAGING**

- **Containers:** Available in 5-gallon pails (19 L, 58.5 lbs.) and 55-gallon drums (net 45 gallons, 170 L, 586.5 lbs.)
- **Shelf Stability:** Up to 12 months when stored in sealed, unopened containers
- **Storage Conditions:** Maintain a temperature between 40° F (4° C) and 90° F (32° C)
- **Storage Guidelines:** Follow Best Practices for Safe Handling & Storage

Find us in

MasterSpec®

Powered by Deltek Specpoint®

SECTION 072119 - FOAMED-IN-PLACE INSULATION PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Closed-cell spray polyurethane foam insulation.
 - 2. Open-cell spray polyurethane foam insulation.
 - 3. Accessories including thermal barrier and ignition barrier coatings.
- B. Related Requirements:
 - 1. Section 072100 "Thermal Insulation" for foam-plastic board insulation.
 - 2. Section 075700 "Coated Foamed Roofing" for spray polyurethane foam insulation used for roofing applications.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:
 - 1. Product Data: For paints and coatings, indicating VOC content.
 - 2. Evaluation Reports or Certificates: For paints and coatings, indicating compliance with requirements for low-emitting materials.

1.3 INFORMATIONAL SUBMITTALS

- A. Test and Evaluation Reports:
 - 1. Product Test Reports: For each product, for tests performed by qualified testing agency.
 - 2. Research Reports:
 - a. For spray-applied polyurethane foam-plastic insulation, from [an agency acceptable to authorities having jurisdiction] [ICC-ES] [UES/IAPMO] [DrJ TER] <Insert evaluation agency> showing compliance with <Insert requirement>.
 - b. For fire-protective coatings applied to spray-applied polyurethane foam-plastic insulation, from [UES/IAPMO] [DrJ TER] [Intertek] <Insert evaluation agency> showing compliance with <Insert requirement>.
- B. Field Quality-Control Submittals:
 - 1. Field quality-control reports for foamed-in-place insulation.
- C. Qualification Statements: For Installer.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: A[n authorized] representative who is trained on applications of spray-applied polyurethane foam-plastic insulation and intumescent coatings, or similar product types[and approved by manufacturer].

PART 2 - PRODUCTS

2.1 CLOSED-CELL SPRAY POLYURETHANE FOAM INSULATION

- A. Closed-Cell Spray Polyurethane Foam: ASTM C1029, Type II, minimum density of [1.5 lb/cu. ft. (24 kg/cu. m)] <Insert density> and minimum aged R-value at 1-inch (25.4-mm) thickness of 6.2 deg F x h x sq. ft./Btu at 75 deg F (43 K x sq. m/W at 24 deg C).
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. BASF Corporation.
 - b. Carlisle Spray Foam Insulation.
 - c. Demilec; a brand of Huntsman Building Products.
 - d. Gaco Western LLC.
 - e. Icnene; a brand of Huntsman Building Products.
 - f. Johns Manville; a Berkshire Hathaway company.
 - g. Lapolla; a brand of Huntsman Building Products.
 - h. SWD Urethane Company.
 - i. <Insert manufacturer's name>.
 - 2. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: [25] [75] <Insert value> or less.
 - b. Smoke-Developed Index: [450] <Insert value> or less.
 - 3. Fire Propagation Characteristics: Passes [NFPA 285] [and] [NFPA 276] testing as part of an approved assembly.

2.2 OPEN-CELL SPRAY POLYURETHANE FOAM INSULATION

- A. Open-Cell Spray Polyurethane Foam: Spray-applied polyurethane foam using water as a blowing agent. Minimum density of [0.4 lb/cu. ft. (6.4 kg/cu. m)] <Insert density> and minimum aged R-value at 1-inch (25.4-mm) thickness of 3.4 deg F x h x sq. ft./Btu at 75 deg F (24 K x sq. m/W at 24 deg C).

- 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. BASF Corporation.
 - b. Carlisle Spray Foam Insulation.
 - c. Demilec; a brand of Huntsman Building Products.
 - d. Gaco Western LLC.
 - e. Icnene; a brand of Huntsman Building Products.
 - f. Johns Manville; a Berkshire Hathaway company.
 - g. Lapolla; a brand of Huntsman Building Products.
 - h. SWD Urethane Company.
 - i. <Insert manufacturer's name>.
- 2. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: [25] [75] <Insert value> or less.
 - b. Smoke-Developed Index: [450] <Insert value> or less.
- 3. Fire Propagation Characteristics: Passes [NFPA 285] [and] [NFPA 276] testing as part of an approved assembly.

2.3 ACCESSORIES

- A. Thermal Barrier Coating: Fire-protective intumescent coating formulated for application over polyurethane foam plastics, compatible with insulation, and passes NFPA 286, FM 4880, UL 1040, or UL 1715 testing as part of an approved assembly.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide No-Burn, Inc.; Plus ThB intumescent coating.
 - 2. Performance Criteria:
 - a. Finish: Flat.
 - b. Color: [White] [Gray] [Tinted].
 - c. VOC Content: 18 g/L or less of water in accordance with EPA 24.
 - d. Solids by Volume: 70 percent.
 - 3. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: [50] [450] <Insert value> or less.
 - 4. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.
 - 5. Topcoat: As recommended in writing by intumescent thermal barrier manufacturer as compatible with substrate materials.
 - a. Decorative Topcoat: 6- to 8-mil (0.15- to 0.20-mm) thick, water-based latex-based paint for interior conditioned spaces recommended in writing by intumescent thermal barrier manufacturer as compatible with substrate materials.
 - b. Protective Topcoat, Interior: 6- to 8-mil (0.15- to 0.20-mm) thick, exterior topcoat, VOC compliant, for interior unconditioned spaces subject to constant high humidity, condensation, or direct contact with moisture.
 - c. Protective Topcoat, Exterior: 6- to 8-mil (0.15- to 0.20-mm) thick, continuous insulation exterior topcoat as a component of exterior wall systems as indicated by Intertek Design Listing BASF/FI 30-09 when installed behind approved claddings.
- B. Ignition Barrier Coating: Fire-protective coating formulated for application over polyurethane foam plastics, compatible with insulation, and in compliance with ICC-ES AC377, Appendix X. Products identified with testing agency markings.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide No-Burn, Inc.; Plus ThB.
 - 2. Performance Criteria:
 - a. Finish: Flat.
 - b. Color: [White] [Gray] [Tinted].
 - c. VOC Content: 18 g/L or less of water in accordance with EPA 24.
 - d. Solids by Volume: 60 to 70 percent.
 - 3. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 50 or less.
 - 4. Topcoat: As recommended in writing by intumescent thermal barrier manufacturer as compatible with substrate materials.
 - a. Decorative Topcoat: 6- to 8-mil (0.15- to 0.20-mm) thick, water-based latex-based paint for interior conditioned spaces recommended in writing by intumescent thermal barrier manufacturer as compatible with substrate materials.
 - b. Protective Topcoat, Interior: 6- to 8-mil (0.15- to 0.20-mm) thick, heavy-duty protective topcoat, VOC compliant, for interior unconditioned spaces subject to constant high humidity, condensation, or direct contact with moisture.

3.1 EXAMINATION

- A. Examine substrates and conditions for compliance with manufacturer's requirements for surface treatments, maximum moisture content, and other conditions affecting performance of the Work.
- B. Proceed with coating application only after unsatisfactory conditions have been corrected and surfaces are dry.

3.2 PREPARATION

- A. Verify that substrates are clean, dry, and free of substances that are harmful to insulation.

3.3 INSTALLATION

- A. Comply with insulation manufacturer's written instructions applicable to products and applications.
- B. Spray insulation to envelop entire area to be insulated and fill voids.
- C. Do not exceed maximum thicknesses recommended by manufacturer. Do not spray into rising foam.
- D. Framed Construction: Install into cavities formed by framing members to achieve thickness indicated on Drawings.
- E. Cavity Walls: Install into cavities to [thickness indicated on Drawings] [fully fill void].
- F. Miscellaneous Voids: Apply in accordance with manufacturer's written instructions.
- G. Apply fire-protective intumescent coatings in accordance with manufacturer's written instructions and to comply with requirements for listing and labeling for fire-propagation characteristics and surface-burning characteristics specified.
 - 1. Use equipment and techniques best suited for substrate and type of material applied as recommended by coating manufacturer.
 - 2. Apply coatings to prepared surfaces as soon as practical after preparation and before subsequent surface soiling or deterioration.
 - 3. Apply coatings to produce surface films without holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Produce sharp lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Continuously monitor wet film thickness (WFT) by performing periodic checks to ensure correct thicknesses are applied.
 - 1. Measuring Thickness:
 - a. Install medallions prior to applying intumescent thermal barrier coating to measure wet film thickness and dry film thickness.
 - b. Perform thickness measurements by measuring representative sample of installed intumescent coating material by means of calipers, optical comparators, or similar devices.

3.5 PROTECTION

- A. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes.

END OF SECTION 072119

PART 3 - EXECUTION

Albi Protective Coatings, Division of Stanchem-Inc.
401 East Berlin Street, East Berlin, CT 06023 USA
Telephone: 860-828-0571 Fax: 860-828-3297
Albi.com