



## ALBI CLAD FP (Product Data Information)

Albi Clad FP is a water-base intumescent thin film fireproofing material for the protection to wood, sheetrock and other combustible substrates. This hard, durable, abrasion resistant product has a smooth, aesthetic finish. Albi Clad FP is ideal for application in occupied areas or other locations where solvent-base fireproofing materials cannot be used. Because of its water-base formulation Albi Clad FP is fully compliant with EPA VOC limits and regulations.

### RECOMMENDED USES:

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Albi Clad FP is recommended for interior use in areas such as:

- Industrial plants
- Atriums
- Hospitals
- Parking Garages
- Food Processing Plants
- Convention Centers
- Correctional Facilities
- Power Generating Facilities
- Warehouses
- School Gymnasiums
- Computer Chip Manufacturing
- Sports Stadiums

### FEATURES:

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- Factory formulated, single component.
- UL tested for resistance to high humidity, heat aging, CO<sub>2</sub>/SO<sub>2</sub> industrial atmosphere, chlorine and washing.
- Thin film application.
- Lightweight & hammer-hard.
- UL listed
- Water-based.
- Attractive off-white finish.
- 100% Asbestos Free.
- Will not dust, flake, nor delaminate.

### APPLICATION:

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Albi Clad FP is spray applied directly from the shipping container. It is important to specify primers that are compatible with Albi Clad FP. For application sites subjected to chemical fumes or spills, the use of a topcoat is required. Contact Albi Manufacturing for recommended primers and topcoats. Do not apply Albi Clad FP below 50 degrees F. Care must be taken to protect the material from direct rainfall. Please refer to the Albi Clad FP Field Application Manual for further details. Thickness of the application will depend upon the fire endurance rating specified. Albi Clad FP must be applied by qualified applicators, utilizing standard airless spray equipment. Installation must be in accordance with manufacturer's printed instructions, and in compliance with specific test requirements.

### PHYSICAL PROPERTIES:

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| PROPERTY             | TEST METHOD   | VALUE                      |
|----------------------|---------------|----------------------------|
| Dry Applied Density  |               | 85 PCF                     |
| Hardness             | Shore D       | 45-50                      |
| Compressive Strength | ASTM D695-91  | 300 psi                    |
| Bond Strength        | ASTM D952-90  | 40 psi                     |
| Abrasion Resistance  | ASTM D1044-90 | 0 grams loss               |
| Impact               | ASTM D256-90b | 0.77-ft lbs./inch of notch |
| Weight per Gallon    |               | 11.90 ± 0.20 lbs./gals     |
| % Solids by Weight   |               | 70% ± 2.0%                 |
| Flame Spread         | ASTM E 84     | 2 - Class A                |
| Smoke Developed      | ASTM E 84     | 5 - Class A                |

## **SUGGESTED SPECIFICATION**

**1.0 SCOPE** This specification covers requirements for materials, equipment and application of intumescent mastic to provide fire protection to structures and supports as indicated on the design drawings, and in accordance with applicable requirements of contract documents. Further, this specification shall be supplemented by the applicable requirements of building codes, insurance rating organizations and all other authorities having jurisdiction.

**1.1 QUALIFICATION OF SUBCONTRACTORS** Application of Albi Clad FP fireproofing shall be performed by qualified, factory-trained applicators having proper equipment and training to complete the installation in accordance with manufacturer's recommendations. Proof of such qualification shall be submitted with bid documents.

### **1.2 SURFACE ACCEPTABILITY**

**1.2.1** Albi Clad FP intumescent mastic shall be directly applied to surfaces that have been properly prepared to receive this fireproof coating. The surfaces must be clean and dry, free from rust, grease, dust or other contaminants that will interfere with proper bonding.

**1.2.2** All wood surfaces shall be primed with compatible primer prior to fireproofing application. Phenolic modified alkyd primer (Albi 487S) or acrylic (Albi 490W) or approved equal.

**1.2.3** Where existing painted wood is to be fireproofed with intumescent mastic, existing paint surface must be checked for compatibility with intumescent coating prior to fireproofing application. Follow mastic fireproofing manufacturer's instructions for compatibility check.

### **1.3 COORDINATION WITH OTHER TRADES**

Albi Clad FP shall be installed after all wood is in place, but before ducts, pipe work, equipment or other obstructions are installed so that fireproofing can be applied to all exposed wood.

### **1.4 DELIVER & STORAGE**

Albi Clad FP shall be delivered to the jobsite in factory sealed containers.

## **2.0 FIREPROOFING**

Fireproofing shall be applied in accordance with drawings or specifications, and shall conform to fire protective ratings as outlined by ASTM E-119 and listed by Underwriter's Laboratories, Inc. This Construction Specification covers a fire resistance rating of one (1) hour based on test conducted by Western Fire Center, Inc. Report #04042 (d) which is per ASTM-E-119.

### **2.1 COATING**

Intumescent mastic fireproof coating for interior use shall be Albi Clad FP as manufactured by Albi Manufacturing, Division of StanChem, Inc. 401 Berlin Street, East Berlin, Connecticut, USA, 06023.

### **2.2 TOPCOATING**

Overcoating is not required with Albi Clad FP. However, if a topcoat is required for color-coding, aesthetics or additional surface protection against spills, a suitable topcoat shall be used. For unusually severe environments consult the fireproofing manufacturer for recommendations of appropriate topcoats.

## **3.0 INSTALLATION & WORKMANSHIP**

### **3.1 AIRLESS SPRAY EQUIPMENT - PUMPS**

Due to the properties of Albi Clad FP, we recommend application with airless spray equipment. This equipment is manufactured and distributed by leading pump manufacturers including:

### **Brand / Model**

Speeflo - Titan 5500 gas or electric operated

Speeflo - Titan Epic Series 1200 HPG Gas

Graco - Gmax 5900, 7900, or 10000 Gas Operated

## **HOSES**

Material lines for airless application must be rated at a minimum 3,000+ psi working pressure with a 3/8 inch inside diameter. Hose length should not exceed 150 feet without consulting Albi Manufacturing.

## **SPRAY GUNS / SPRAY TIPS**

### **Brand / Model**

Binks - 1M Airless

Graco - Contractors Airless

Titan - SGX-20 Airless

Wagner - G-10N Airless

### **Brand / Model**

ASM - Zip Tips

Graco - Airless Tips

Titan - Airless Tips

You should always have a range of tip sizes on hand at a job site since steel sizes, hose length, vertical lift, and job site conditions all impact spray patterns. We recommend a range of tip sizes from 419-423 & 519-523.

**3.2** Final dry film thickness application must conform to manufacturer's listed design or to recommendations for specified rating.

**3.3** Small patchwork or damaged areas may be hand-trowelled or gloved. When hand trowelling, tools must be kept wet with water to avoid sticking.

### **3.4 THICKNESS OF APPLICATION**

Albi Clad FP shall be applied to the thickness required in accordance with the acceptable test data. Thickness shall be measured on the basis of wet film thickness taken by frequent random probe measurements during application. All test data measurements are taken on dry film thickness, supervision of application must be undertaken while material is being installed, since final, cured, dry film thickness will reflect shrinkage due to evaporation of water.

### **3.5 SAMPLE APPLICATION**

Before proceeding with the work, the applicator shall apply a section of approximately 100-sq. ft. (9.3 sq. meters) area. This section shall be witnessed by architect or owner's representative and shall be subject to their approval to be used as guide for texture and thickness of the finished work.

### **3.6 CLEAN UP**

Work area shall be maintained in an orderly condition with good housekeeping conditions prevailing. Upon completion of installation, all debris shall be cleared and removed from jobsite.

### **3.7 GUARANTEE**

**3.7.1 Manufacturer** shall warrant material to conform to its specification, and be free of manufacturing defects for a period of six months.

**3.7.2 Applicator** shall guarantee that the installation of material conforms to manufacturer's recommendations and project specifications, and shall further guarantee the workmanship connected with the installation for a period of one year from date of installation