Albi Clad TF

WATER-BASED THIN-FILM INTUMESCENT FIREPROOFING

Product Data Sheet

Albi Clad TF is a water-base intumescent thin film fireproofing material for use wherever interior fireproofing will be exposed to view or be subject to potential damage from external sources. This hard, durable, abrasion resistant product has a smooth, aesthetic finish. Albi Clad TF 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 TF is fully compliant with EPA VOC limits and regulations.

RECOMMENDED USES:

Albi Clad TF is recommended for interior use on structural steel columns and beams 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:

- Factory formulated, single component.
- UL tested for resistance to high humidity, heat aging, CO_2/SO_2 industrial atmosphere and washing.
- Thin film application.
- Lightweight & hammer-hard.
- UL listed for 1 through 3-1/2 hours to ASTM E-119.
- Water-based.
- Attractive off-white finish.
- 100% Asbestos Free.
- Will not dust, flake or delaminate.

APPLICATION:

Albi Clad TF is spray applied directly from the shipping container. It is important to specify metal primers that are compatible with Albi Clad TF. 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 TF below 50 degrees F. Care must be taken to protect the material from direct rainfall. Please refer to the Albi Clad TF Fireproofing Application Manual and Field Guide for further details. Thickness of the application will depend upon the fire endurance rating specified. Albi Clad TF must be applied by qualified, factory-trained applicators, utilizing standard, heavy-duty, pneumatic or airless, spray equipment. Installation must be in accordance with manufacturer's printed instructions, and in compliance with specific test requirements. Protect From Freeze.

PHYSICAL PROPERTIES:

PROPERTY	TEST METHOD	VALUE
Dry Applied Density		85 PCF
Hardness (Shore D)	ASTM D2240	60-65
Compressive Strength	ASTM D695	300 psi
Cohesive/Adhesion Strength	ASTM D4541	190 psi (cohesive failure)
Abrasion Resistance	ASTM D4060	.3 grams loss
Impact Resistance	ASTM D2794	85 in/lbs.
Weight per Gallon		11.5 ± 0.20 lbs./gals
% Solids by Weight		72% ± 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 TF 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 TF 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 steel 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 steel 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 TF shall be installed after all steel is in place, but before ducts, pipe work, equipment or other obstructions are installed so that fireproofing can be applied to all exposed steel.

1.4 DELIVER & STORAGE

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

MATERIALS

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 / UL263 and listed by Underwriter's Laboratories, Inc.

2.1 COATING

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

2.2 TOPCOATING

Overcoating is not required with Albi Clad TF. 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.

INSTALLATION & FINISH

3.0 INSTALLATION

3.1 AIRLESS SPRAY EQUIPMENT - PUMPS

Due to the properties of Albi Clad TF, we recommend application with airless spray equipment. Any pumps used must be rated for a minimum material delivery of 1.25 gallons per minute. 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	Brand / Model
Binks - 1M Airless	ASM - Zip Tips
Graco - Contractors Airless	Graco - Airless Tips
Titan - SGX-20 Airless	Titan - Airless Tips
Wagner - G-10N Airless	

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 troweling by hand, tools must be kept wet with water to avoid sticking.

3.4 THICKNESS OF APPLICATION

Albi Clad TF 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

Please refer to the Albi Clad TF Application Manual and Field Guide for further details.