



PRODUCT DATA SHEET

CAFCO SprayFilm® -WB 3 and WB 4 INTUMESCENT FIRE PROTECTION

1. PRODUCT DESCRIPTION

CAFCO SprayFilm -WB 3 and WB 4 are water-based, intumescent coatings consisting of polyvinyl acetate resins and inorganic fillers for the fire protection of structural steel. CAFCO SprayFilm -WB 4, in conjunction with CAFCO SprayFilm Topseal™, is a water-based system investigated by UL for exterior applications. CAFCO SprayFilm gives architects the ability to design using steel that can be decorative and aesthetically pleasing. These coatings can be top coated to match to their surroundings and allow steel to be left exposed to view while providing the fire resistance rating.

The first step of the CAFCO SprayFilm intumescent coating system is the application of a compatible steel primer. Next, the CAFCO SprayFilm is applied to the steel over the primer to the required thickness. This layer provides the actual fire protection to the member. Finally, a protective topcoat is applied over the CAFCO SprayFilm. For exterior use, SprayFilm -WB 4 must be sealed with SprayFilm Topseal. An approved exterior finish coat is then applied directly over the SprayFilm Topseal. The finish coat can be any color and will protect the CAFCO SprayFilm against humidity, chemicals and damage while providing a smooth, attractive, architectural finish.

2. FEATURES

- Provides up to 4 hour fire resistance ratings
- Easy application and clean up
- Can be finished with any color top coat
- VOC compliant
- Abuse resistant
- Durable and smooth architectural finish

3. APPLICATION

Before applying CAFCO SprayFilm to structural steel, an approved primer must be applied. The CAFCO SprayFilm -WB 3 and WB4 systems can be brushed or sprayed, not rolled. CAFCO SprayFilm -WB 3 and WB 4 are available in a trowel grade material. The thickness of CAFCO SprayFilm will depend upon the specified fire rating and size/shape of the steel member to be protected. For exterior use, SprayFilm -WB 4 must be sealed with SprayFilm Topseal. An additional finish coat is then applied, in the desired color, directly over the SprayFilm -Topseal.

4. FIRE RESISTANCE RATINGS

CAFCO SprayFilm is classified by Underwriters Laboratories, Inc. to provide up to 4-hour fire resistance ratings in accordance with UL 263 (ASTM E-119), CAN/ULC-S101 and ISO 830.

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5. PHYSICAL PERFORMANCE

Structural steel fire protection is exposed to various physical forces throughout the life of a building. It is important for a fire protection material to be able to withstand abuse. American Society for Testing and Materials (ASTM) test methods are used to evaluate the performance of intumescent materials when subject to these various physical forces.

STANDARD PERFORMANCE			
Performance Characteristic	ASTM Standard	CAFCO SprayFilm Performance *	
		WB 3	WB 4
SURFACE BURNING Measures the response of material to heat and flame under controlled conditions.	E84	Flame Spread 0-10 Smoke 0-50 Developed (Class A)	Flame Spread 0-15 Smoke 0-50 Developed (Class A)
DUROMETER HARDNESS Measures the indentation hardness of materials.	D2240	84 minimum Shore D	84 minimum Shore D
IMPACT RESISTANCE Measures the point at which a coating will crack when impacted.	D2794	56 inch-lb. (0.65 kg-m) Intrusion minimum	56 inch-lb. (0.65 kg-m) Intrusion minimum
ABRASION RESISTANCE Measures the abrasion produced on organic coatings applied to a plain, rigid surface.	D4060	0.6505 g/ 1000 cycles	0.2300 g/ 1000 cycles
BOND STRENGTH Evaluates the adhesion of a coating to its substrate when subjected to tensile stress.	D4541	280 psi (1931 k Pa)	280 psi (1931 k Pa)

* Values represent independent laboratory tests under controlled conditions

The performance data herein reflect our expectations based on tests conducted in accordance with recognized standard methods under controlled conditions. The sale of these products shall be subject to the Terms and Conditions of Sale set forth in the Company's invoices. Isolatak International is not responsible for property damage, bodily injuries, consequential damages or losses of any kind that arise from or are related to the applicator's, general contractor's, or property owner's failure to follow the recommendations set forth in Isolatak International's publications. No agent, employee or representative of the Company, its subsidiary or affiliated companies is authorized to modify this statement.