

## Cafco SPRAYFILM® WB3 Product Data Sheet Intumescent fire protective coating



[www.promatmiddleeast.com](http://www.promatmiddleeast.com)





## General description

Cafco SPRAYFILM® WB3 is a water based intumescent coating consisting of polyvinyl acetate resins and fillers for the fire protection of structural steel. It can be sealed and protected with a decorative top coat.

Cafco SPRAYFILM® WB3 is applied directly to the contour of primed I and H-section columns, angles, channels and beams, and hollow sections, to provide fire protection for up to 120 minutes. In a fire, a chemical reaction takes place, causing the Cafco SPRAYFILM® WB3 to expand and form an insulating layer which prevents the temperature of the steel rising above a critical level.

## Fields of application

The product is suitable for internal and external use for fire protection of:

- steel structures

## System advantages / customer benefits

- provides fire resistance for up to 120 minutes in accordance with BS 476: Part 21 and up to 180 minutes in accordance with ASTM E119 (UL 263)
- durable and decorative finish
- steelwork may be left exposed to view
- chemical and abuse resistant
- can be top coated to match surroundings
- easy application and clean up with water
- fast drying time.

## Packaging

- 25 kg metal pails

## Storage requirements

- indoors in dry conditions between 10°C and 40°C
- protect from frost, excessive heat (above 45°C) and strong radiant sunlight
- shelf life of original sealed containers at least 10 months
- once opened, pails should be finished swiftly

## Safety instructions

- Keep out of reach of children.
- Avoid contact with food or beverages
- Please refer to the safety data sheet for additional advice

## Test certificate / approval

Cafco SPRAYFILM® WB3 is assessed by Certificate, LPCB and UL-listing. Loadbearing steel are tested in accordance with applicable British Standards (BS) and US Standards (ASTM). Depending on the applied layer thickness and area of application, fire resistance 30 minutes to 180 minutes can be achieved.

## Properties and performance

Colour and finish	White with a flat matt finish texture
Density	1.33kg/litre
Alkalinity	pH 8.0 ±0.2 at 25°C
Cure	By air drying
Initial set	Approx. 6 hours at 20°C (68°F) and 50% RH and 0.4mm WFT
Theoretical coverage	Approx. 18.79m <sup>2</sup> /container at 0.7mmDFT
Practical coverage	Dependent on surface texture, substrate, application method and technique
Number of coatings	One or more as required
Maximum thickness per coating (WFT)	1mm with spray; 0.76mm with brush or roller. For airless spraying, several thin coatings as opposed to one heavy coating will give greater control over finish and thickness
Solid by weight	70% ±2%
Impact resistance	18 kg/m in accordance with ASTM D2794
Durometer hardness	80 shore D in accordance with ASTM D2240
Abrasion resistance	0.6505g at 1000 cycles accordance with ASTM D4060

## Top Coating

In exposed and semi-exposed interior environments, the applied Cafco SPRAYFILM® WB3 should be coated with a compatible finish coat, in order to give the desired colour and seal the Cafco SPRAYFILM® WB3.

The topcoat system must be suitable for the environment in which it is to be used and should be a good quality, long oil alkyd, silicone, acrylic latex or polyurethane type. All topcoats should be applied in accordance with the topcoat manufacturer's recommendations.

Ensure that the Cafco SPRAYFILM® WB3 is thoroughly dry before application of top coat.

Typically, allow a minimum of 7 days for the Cafco SPRAYFILM® WB3 to fully cure before application of any top coat system.

For the top coat compatibility, please consult Promat Technical Support (email: [technical@promatfp.ae](mailto:technical@promatfp.ae)).

# Promat

## **Middle East**

### **Promat Fire Protection LLC**

Dubai Investment Park 2  
PO Box 123945, Dubai  
T +971 4 885 3070  
F +971 4 885 3588  
E [info@promatfp.ae](mailto:info@promatfp.ae)  
[www.promatmiddleeast.com](http://www.promatmiddleeast.com)

## **Head Office**

### **Promat International N.V.**

Bormstraat 24  
2830 Tisselt  
Belgium  
T +32 15 718 100  
F +32 15 718 109  
E [info@promat-international.com](mailto:info@promat-international.com)  
[www.promat-international.com](http://www.promat-international.com)  
[www.promat-tunnel.com](http://www.promat-tunnel.com)  
[www.promat-marine.com](http://www.promat-marine.com)  
[www.promat-oilandgas.com](http://www.promat-oilandgas.com)