



Protective  
&  
Marine  
Coatings



# FIRETEX FX5120 WATERBASED INTUMESCENT COATING

B59W5120

WHITE

Revised: May, 23 2016

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

**FIRETEX FX5120** is a waterbased thin-film intumescent fire protection coating for use on interior exposed structural steel substrates. Its smooth paint-like finish allows architects to design using exposed steel for a decorative and aesthetic final appearance.

- Provides up to 2 hours fire protection in accordance with UL 263 (ASTM E-119) and CAN/ULC-S101
- Single component
- Aesthetic finish
- Impact resistant
- Outstanding application characteristics

### PRODUCT CHARACTERISTICS

|                       |                      |
|-----------------------|----------------------|
| <b>Finish:</b>        | Flat                 |
| <b>Color:</b>         | White                |
| <b>Volume Solids:</b> | 69%                  |
| <b>Weight Solids:</b> | 71%                  |
| <b>VOC:</b>           | <4 g/L ; 0.03 lb/gal |

Note: Product is designed for spray and brush application

#### Recommended Spreading Rate per coat:

|  | Airless Spray       | Brush             |
|--|---------------------|-------------------|
| <b>Wet mils</b> (microns)  | <b>56.0</b> (1400)  | <b>18.0</b> (441) |
| <b>Dry mils</b> (microns)  | <b>40.0*</b> (1000) | <b>12.0</b> (300) |
| <b>~Coverage sq ft/gal</b> (m <sup>2</sup> /L)                                     | <b>28</b> (0.7)     | <b>92</b> (2.3)   |
| Theoretical coverage <b>sq ft/gal</b> (m <sup>2</sup> /L) @ 1 mil / 25 microns dft | <b>1104</b> (27.1)  |                   |
| Maximum sag tolerance typically 72.0 mils (1800 microns) wet by airless spray.     |                     |                   |

\* Required DFT for specific fire rating is dependent on steel section and size. Consult Sherwin-Williams Sales Representative.

#### Drying Schedule:

|  | @ 60°F/15°C | @ 73°F/23°C |
|--|-------------|-------------|
| <b>To touch:</b>   | 5 hours     | 3 hours     |
| <b>To handle*:</b>   |             |             |
| <b>To recoat:</b>  | 24 hours    | 6 hours     |
| *This will depend on the total thickness of FIRETEX FX5120 to be applied. No more than 2 coats by airless spray should be applied within any 24 hour period. |             |             |
| Drying time is temperature, humidity, and film thickness dependent.  |             |             |

|                          |   |
|--------------------------|---|
| <b>Shelf Life:</b>       | 10 months, unopened<br>Store indoors at 40°F (4.5°C) to 100°F (38°C). |
| <b>Reducer/Clean Up:</b> | Water   |

### RECOMMENDED USES

- For use on exposed structural steel that requires an aesthetic finish
- Commercial buildings
- Healthcare / Hospitals
- Hotels
- Educational buildings
- Stadiums
- Iconic structures
- Public buildings
- Airports
- Atriums
- Warehouses
- School gymnasiums
- Convention centers

### APPROVALS

- Provides Up To 2 Hours Fire Protection in Accordance With UL 263 (ASTM E-119) and CAN/ULC-S101
- UL D981 Beam Design
- UL N636 Beam Design
- UL Y623 Column Design
- UL Y624 Tube Column Design

### PERFORMANCE CHARACTERISTICS

| Test Name                  | Test Method   | Results  |
|----------------------------|---------------|--|
| <b>Abrasion Resistance</b> | ASTM D4060    | 290 mg loss  |
| <b>Adhesion</b>            | ASTM D4541-09 | 540 psi  |
| <b>Durometer Hardness</b>  | ASTM D2240-05 | Shore D - 70                                       |
| <b>Impact Resistance</b>   | ASTM D2794-93 | 83 in. lbs.  |
| <b>Surface Burning</b>     | ASTM E84      | Class A<br>Flame Spread - 0<br>Smoke Developed - 5 |

### APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

#### Airless Spray

Nozzle Size: .....HD .X23- .X25 (depending on application requirements)  
Operating Pressure: .....2800-3000 psi (197-211 kg/cm<sup>2</sup>)

Airless fluid line hose with 3/8" ID is recommended. Lengths less than 100' feet of 3/8" ID fluid are recommended with a 10' 1/4 ID whip hose. All pump and gun filters must be removed.

#### Brush

FIRETEX FX 5120 may be brush applied using a quality feather tipped brush such as the Purdy Nylox Soft. The typical maximum film build is 18 mils with faint brush marks remaining.



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### RECOMMENDED PRIMERS

Must be primed with approved primer.

Approved Primers:

Kem Bond HS  
Kem Kromik Universal Primer  
Pro Industrial ProCryl Universal Primer  
Recoatable Epoxy Primer

Contact your Sherwin-Williams Representative for specific products.

### RECOMMENDED TOPCOATS

Approved Topcoats:

Pro Industrial DTM Acrylic  
Duration Home  
EcoSelect  
Emerald  
Harmony  
Hi-Solids Polyurethane  
Metalatex  
Pro Industrial Pre-Catalyzed Epoxy  
Pro Industrial Multi-Surface Acrylic  
Pro Mar 200 Zero VOC  
Pro Mar 400 Zero VOC  
Solo  
SuperPaint  
Waterbased Acrolon 100  
Waterbased Catalyzed Epoxy

Contact your Sherwin-Williams Representative for specific products.

A topcoat is not UL/ULC required for Interior Conditioned Space (ICS) areas.

### ADDITIONAL NOTES

The dry time of this material is retarded by high humidity conditions. Lack of air movement also slows down the drying process, and under such conditions it is advisable to introduce some method of circulating air over the coated surface in order to speed up the drying. A ventilated air speed of 6 feet per second is recommended.

### CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Water. Clean tools immediately after use with Water. Follow manufacturer's safety recommendations when using any solvent.

### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

### SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

### APPLICATION CONDITIONS

**FIRETEX FX5120 must be applied in a dry internal environment. It must not be exposed to condensation, damp or wet conditions during or after application.**

Temperature: 40°F minimum\*  
(air, surface, and material)  
At least 5°F (3°C) above dew point

\*At application temperatures below 50°F (10°C), drying times will be significantly extended, and spraying characteristics may be impaired

Relative humidity: 80% maximum\*\*

\*\*In conditions of high relative humidity good ventilation conditions are essential.

Extended overcoating times may be required at low temperatures and/or high film thicknesses.

Occasionally cracking may occur on edges of flanges and external or internal angles of structural steel, depending on geometry, over-application and ambient conditions. This does not detrimentally affect the fire performance properties of the product.

### ORDERING INFORMATION

Packaging: 5 gallons (18.9L) of material in 5 gallon pail

Weight: 11.6 lb/gal ; 1.39 Kg/L

### DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

### WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.