



Protective  
&  
Marine  
Coatings



# FIRETEX® FX6002 ULTRA FAST DRYING INTUMESCENT

PART A  
PART B  
PART C

B59VW602  
B59WW602  
B59WP602

GRAY ADDITIVE  
WHITE  
CATALYST

Revised: December 7, 2023

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

**FIRETEX FX6002** is a high performance intumescent coating, which provides fire and corrosion protection to commercial building steel structures, both interior and exterior\*. FIRETEX FX6002 provides up to 3 hours of fire protection and is tested to global industry standards ISO 834 Parts 10 and 11, ASTM E119, and UL 263. This unique formulation provides a very durable high quality aesthetic finish. The ultra-fast drying properties allows for expedited shop application of the complete system and a reduction of the construction schedule.

- Excellent spray application properties
- Rapid overcoating in as little as one hour, if required
- Smooth, low sheen finish
- Extremely durable, may be handled in one hour
- May be exposed to the weather after four hours
- Low film build requirements

\*When topcoated with 6 mils (150 microns) dft of Acrolon 218 HS per the appropriate UL Design

### PRODUCT CHARACTERISTICS

<b>Color:</b>	Light Gray when mixed
<b>Volume Solids:</b>	92% ± 3% (ASTM-D2697-03, 2014)
<b>Mix Ratio:</b>	One ~0.11 gallon (416 mL) filled bottle of Part C (Catalyst) is added to Part A (Gray Additive). This is then mixed with Part B (White).
<b>VOC:</b>	<150 g/L ; 1.25 lb/gal, mixed

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (mm)</b>	<b>18</b> (0.45)	<b>80</b> (2)
<b>Dry mils (mm)</b>	<b>16</b> (0.4)	<b>72</b> (1.8)
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>21</b> (0.5)	<b>92</b> (2.3)
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>1476</b> (36)	

Consult your Sherwin-Williams representative for further application details.

#### Drying Schedule @ 200 mils / 5 mm:

	@ 50°F/10°C	@ 73°F/23°C	@ 86°F/30°C
<b>To touch:</b>	2 hours	45 minutes	30 minutes
<b>To handle:</b>	3 hours	1 hour	30 minutes
<b>To recoat:</b>	2.5 hours	1 hour	30 minutes

Drying time is temperature, humidity, and film thickness dependent.

**Pot Life:** 15 minutes @ 73°F (23°C) ;  
10 minutes @ 86°F (30°C)

**Sweat-in-time:** None

**Shelf Life:** 12 months at 41-86°F (5-30°C)

**Flash Point:** 50°F (10°C)

**Clean Up\*:** VOC Restricted Areas (≤25 g/L, or ≤3%): use High Solids Compliant Thinner #1 - Fast (R7K111).

**Reducer:** Do not thin!

\*Other areas (>25 g/L, or >3%): use High Solids Compliant Thinner #1 - Fast (R7K111), Xylene and/or MEK. Choose a solvent that is compliant in your area. Confirm compliance with state and local air quality rules before use.

### RECOMMENDED USES

For use on structural steel requiring fire protection, including concealed structural steel and exposed structural steel that requires an aesthetic finish. Suitable for use in interior and exterior up to C5 (ISO12944-2) environments.

- Hotels
- Multi-story buildings
- Atriums
- Airports
- Warehouses
- Clean rooms
- Parking garages
- Educational buildings/gymnasiums
- Convention centers and stadiums
- Health care / Hospitals
- Transportation terminals
- Heavy duty manufacturing facilities

### APPROVALS

- ASTM E119 Intertek listings: SWC/IF 90-01 / 180-03 / 240-05
- UL263 UL listing: Y660
- UL classified - UL CDYD (ISO834)
- Investigated to the requirements of ANSI/UL 263 and CAN/ULC-S101 for Interior Conditioned Space, Interior General Purpose and Exterior Environmental Purpose
- ASTM E84
- LEED V4.1 Certificate of Attestation
- US Patent Number US 8784705B2
- Canadian Patent Number CA 2530380
- ICC ES: AC23 Number ESR 4766

### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060	590 mg (1000 cycles)
<b>Adhesion</b>	ASTM D4541	>350 psi (2.5MPa)
<b>Compressive Strength</b>	ASTM D695	>1,450 psi (10MPa)
<b>Durometer Hardness</b>	ASTM D2240	Shore D >65
<b>Flexural Strength</b>	ASTM D790	>725 psi (5MPa)
<b>Impact Resistance</b>	ASTM D2794	>170 in lbs (20J)
<b>Surface Burning</b>	ASTM E84	Flame Spread Index 0 Smoke Developed Index 15

### APPLICATION EQUIPMENT

#### Plural Component Spray

FIRETEX FX6002 is only to be used by applicators trained by Sherwin-Williams Fire Protection staff. A comprehensive application manual will be provided to trained applicators. Only application equipment approved by Sherwin-Williams shall be used with FIRETEX FX6002.

Examples of qualified spray equipment are Wiwa Duomix 270, Graco XM70, and Graco XP-HF.

#### Brush/Roller

FIRETEX FX6002 is suitable for brush and/or roller for small areas of repair or stripe coat.



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### RECOMMENDED SYSTEMS

FIRETEX FX6002 can only be used with approved primers and topcoats. Please contact your Sherwin-Williams representative for specific options.

Primers must be approved as per the FIRETEX FX6002 Primer Guide. Contact your Sherwin-Williams representative for further information.

Approved Topcoats:

Where topcoats are specified on a project, these must be approved as per the FIRETEX FX6002 Topcoat Guide. Subsequent maintenance and repaint must also be done with an approved topcoat. Contact your Sherwin-Williams representative for specific information.

### RECOMMENDED THICKNESS

Contact your Sherwin-Williams representative for material take off estimates and FIRETEX FX6002 loading/DFT requirements.

### ADDITIONAL NOTES

A very low thickness or discontinuous film of FIRETEX FX6002 can lead to slow or incomplete curing of the coating. To address this a minimum thickness of 16 mils (400 microns) per coat must be achieved.

Drying times, curing times and pot life should be considered as a guide only.

Overcoating should take place within 28 days of application of the previous coat of FIRETEX FX6002. If 28 days is exceeded, mechanical abrading of the FIRETEX surface is required to ensure proper adhesion.

The reaction between the Part B (White) component and the Part C (Catalyst) is highly exothermic. Deviation from the mixing ratio should not be undertaken.

The Part C (Catalyst) must be stored separately from the Part B (White), Part A (Gray Additive), and from any other paint or chemical products, in accordance with the product safety data sheet.

The quoted pot life information is typical for a 1 liter mix. Should any thickening or lumps appear in the Part A (Gray Additive) component, this should be discarded and the equipment flushed through immediately.

Flushing of spray equipment is essential before any break in work, and is recommended at regular intervals throughout the application procedure. Only mix units of FIRETEX FX6002 as they are required for immediate use.

FIRETEX FX6002 should NOT be thinned with cleaners or any other solvent. Thinning will severely impair the curing mechanism and subsequent performance. Thinning with normal paint solvents can lead to exothermic reaction and possible fire or explosion hazard.

Note: After addition of the Part C (Catalyst) to the Part A (Gray Additive) component, the shelf life of the mix is 48 hours at 73°F (23°C).

### SAFETY PRECAUTIONS

Refer to the SDS 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

FIRETEX FX6002 is designed for use over a suitably prepared and primed substrate. Ensure surfaces are clean, dry and free from all surface contamination.

Special care must be exercised in the removal of dry overspray dust prior to the application of FIRETEX FX6002.

Minimum recommended surface preparation:

Carbon Steel: SSPC-SP6/NACE 3 (Sa 2), 2-3 mils (50-75 microns) angular profile  
Galvanized Steel: ASTM D6386-16a, 2-3 mils (50-75 microns) angular profile

### APPLICATION CONDITIONS

FIRETEX FX6002 must be applied in a dry environment where atmospheric conditions can be controlled. It must not be exposed to condensation, damp, or wet conditions during or after application until fully cured.

Temperature: 41°F (5°C) minimum\*  
(air, surface, and material)  
Relative humidity: 85% maximum\*\*

\*At application temperatures below 50°F/10°C, drying and curing times will be extended. Substrate temperature should always be at least 5°F (3°C) above the dew point.

\*\*Relative humidity must be <85% to ensure proper film formation.

If it is desired to overcoat outside the times stated on the data sheet, please seek advice of your Sherwin-Williams representative.

### ORDERING INFORMATION

A three component material supplied in separate containers to be mixed prior to use.

Pack Size (~9.5 gallons / 36L, mixed):

Part A: ~4.65 gallons (18L) in a 5 gallon (19L) pail ; weight: ~60 lbs (27 kg)  
Part B: ~4.76 gallons (18L) in a 5 gallon (19L) pail ; weight: ~61 lbs (28 kg)  
Part C: ~0.11 gallons (416 mL) in a ~0.13 (500 mL) bottle ; weight: ~1.5 lbs (0.7 kg)

Mix Ratio: One ~0.11 gallon (416 mL) filled bottle of Part C (Catalyst) is added to Part A (Gray Additive). This is then mixed with Part B (White).

### 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.