

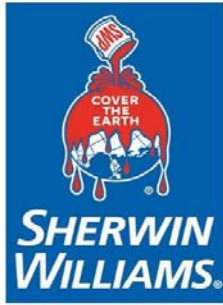


# Specification Selector

## Cellulosic Fire Protection of MILD STEEL FOR EUROPE

Service Environment, As Defined in EN 16623	Closest ISO 12944-2 Environment	Specification		
		FIRETEX® Materials <sup>1</sup>	Top Sealer Coat	Durability
<b>Z2: Internal Conditions</b> Humidity lower than 85%, and excluding temperatures below 0°C	<b>C1 defined as Heated Buildings with clean atmospheres (Internal &amp; Dry)</b>	<b>FX5000 Series FX2000 Series FX6002</b>	<b>Optional: FIRETEX® M71V2 or Acrolon 7300 @ 60 microns dft</b>	<b>Life of Building<sup>2</sup></b>
<b>Z1: Internal Conditions with High Humidity.</b> Humidity equal to or higher than 85%, but excluding temperatures below 0°C	<b>C2 defined as Unheated buildings where condensation may occur</b>	<b>FX5000 Series FX2000 Series</b>	<b>Apply:- FIRETEX® M71V2 or Acrolon 7300 @ 60 microns dft</b>	<b>Up to 20 Years<sup>2</sup></b>
		<b>FX6002</b>	<b>Optional: FIRETEX® M71V2 or Acrolon 7300 @ 60 microns dft</b>	<b>Life of Building with Topcoat<sup>2</sup> Up to 20 years without</b>
<b>Y: Internal &amp; Semi-Exposed Conditions</b> Including Temperatures below 0°C, but no exposure to rain, and limited or casual exposure to UV	<b>C3 Internal production rooms with high humidity C2 External with low levels of pollution</b>	<b>FX5000 Series FX2000 Series</b>	<b>Acrolon™ 7300 <sup>3</sup> @ 150 microns dft.</b>	<b>FX5000 Series - Up to 15 Years<sup>2,3,4</sup> FX2000 Series - Up to 20 Years<sup>2,3,4</sup></b>
		<b>FX6002</b>	<b>Optional: FIRETEX® M71V2 @ 75 microns dft., or Acrolon 7300 @ 60 microns dft</b>	<b>Up to 20 Years<sup>2</sup></b>
<b>X: External Use Exposed to weather</b>	<b>C3/C4 External Urban &amp; Industrial Not Including C5 Environments</b>	<b>FX2000 Series</b>	<b>Acrolon™ 7300 <sup>3</sup> @ 150 microns dft.</b>	<b>Up to 20 Years<sup>2,3,4</sup></b>
		<b>FX6002</b>	<b>Acrolon™ 7300 <sup>3</sup> @ 75 microns dft</b>	<b>Up to 20 Years<sup>2</sup></b>
<b>Not Applicable to EN 16623</b>	<b>C5 External Industrial &amp; Marine</b>	<b>FX6002</b>	<b>Acrolon™ 7300 <sup>3</sup> @ 150 microns dft</b>	<b>Up to 20 Years<sup>2,3</sup></b>

<sup>1</sup> The dry film thickness of the FIRETEX FX Intumescent is dependent on the size, shape and orientation of each section. Supplied with this information, Sherwin-Williams Fire Engineering & Estimation Team (FEET) can determine an accurate take-off. Please ask about our BIM capabilities.



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**FIRETEX range includes: FIRETEX FX5000 Series - FX5090 - FX5120, suitable for Z2/C1, Z1/C2 & Y/C3 environments**

**FIRETEX 2000 Series - FX2002 - FX2004 - FX2005 - FX2006. Suitable for Z2/C1, Z1/C2 & Y/C3 & X/C4 environments, except FX2004 which is not suitable for X/C4. FIRETEX 1000 Series can be used for on site application using the same dry film thicknesses as it's 2000 series equivalent.**

**FIRETEX FX6002 is suitable for all environments**

References to ISO 12944 are included only in relation to the Corrosivity Categories. ISO 12944 does not include guidance regarding the specification and use of Intumescent fire protection coating systems.

When determining the environmental category the specifier must consider that certain structures and/or locations can produce a micro climate which is more corrosive than that of the surrounding environment. This can be the case with open sided buildings including car parks.

EN 16623 Durability: Durability of the reactive coating system to maintain an adequate level of fire protection after exposure to environmental conditions.

The provisions, test and assessment methods in this standard or referred to, have been written, based upon the assumed intended working life of the product for the intended use of 10 years up to 25 years provided that the product is subject to appropriate use and maintenance.

<sup>2</sup> Sherwin-Williams durability is based on in house testing. Regular minor maintenance should be scheduled to achieve the required life to first major maintenance.

<sup>3</sup> Multiple coats will be required to achieve this DFT; the number of coats will be dependent on the method of application. It is strongly recommended that the applicator uses contrasting shades to aid visual inspection when applying multiple coats.

<sup>4</sup> Ease of Access is required to allow full inspection every year from the 3rd year after application. Where an inspection identifies breakdown or damage this should be addressed by the application of an appropriate remedial specification immediately. Where inspection is not possible, durability will be reduced to up to 10 years.

Maximum Temperature for FIRETEX is 70°C. At temperatures in excess of 40°C thermoplasticity may be observed leaving the material more susceptible to mechanical damage. Temperatures greater than 30°C in conjunction with high relative humidity may reduce the durability of the system, consult Sherwin-Williams Technical Customer Support Team for further advice.

Recommended primers and topcoats for all the environments:

For Shop Application of Solvent Based Intumescent: FIRETEX C69 Epoxy Blast primer applied @ 25 µm DFT.  
For Site or Shop Application of Intumescent as well as under FX5000 Series either: Macropoxy 400 Epoxy Zinc Phosphate Primer or Kem-Kromik 155 Alkyd Zinc Phosphate Primer which are applied @ 75-100 µm dft.

Where FX6002 is used in a Z2, Z1 or Y environment and a specific coloured finish is required any approved top coat material may be specified in accordance with its data sheet thickness

Only Sherwin-Williams tested & approved top sealer coats can be used over FIRETEX Intumescent, please contact the Sherwin-Williams Technical Customer Support Team.

Technical Customer Support team can be contacted by email or phone: Email: [technicale@sherwin.com](mailto:technicale@sherwin.com),  
Phone: +44 1204 556 457

The information detailed in this specification selector is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

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This Specification is specifically subject to the disclaimer which can be found at <http://protectiveemea.sherwin-williams.com/Home/Disclaimer>