



FIRETEX® FX Range

Comprehensive guide to passive fire protection coatings

Water based intumescent materials **FX5062, FX5090 & FX5120**

Sherwin-Williams' latest generation water based acrylic coatings provide **highly competitive solutions** for the protection of structural steelwork for periods of **15 minutes up to 120 minutes**. Designed for application to erected steelwork they are suitable for use in **internal environments; C1 and C2 categories**** where they will provide a long term cost effective fire protection solution, including **complex arrangements of openings (cellular beams)**.

Formulated for ease of application **FIRETEX®** water based intumescent coatings can be used to provide a **great visual appearance on steelwork which will be visible in the finished building**.

The three variants complement each other to ensure that Sherwin-Williams' product offer is as **competitive as possible across different fire protection periods and steel shapes and sizes**.

FIRETEX® FX5062 – has certified loadings for time periods from 15 to 90 minutes, it is primarily aimed at the needs of the 60 minute fire protection (period) market but also finds use on 90 min projects.

FIRETEX® FX5090 – has certified loadings for time periods from 15 to 120 minutes, it is primarily designed to meet the needs of 90 minute fire protection projects, but also finds use on 120 minute projects.

FIRETEX® FX5120 – has certified loadings for time periods from 60 to 120 minutes and is primarily formulated to meet the needs of 120 minute fire protection projects.



** Refer to ISO12944-2

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Solvent based intumescent materials FX1003 & FX2003

Formulated using solvent borne acrylic resin technology these materials offer a **highly versatile solution** to meet fire protection requirements from **15 minutes up to 120 minutes**. The testing of these products includes elemental multi temperature evaluation meaning they can be used on simple rolled steel members and also beams including **complex arrangements of openings (cellular beams)**.

Available in both **on-site** and **off-site** applied versions. These products offer excellent application characteristics giving a quick and trouble free application, with an aesthetically pleasing standard of finish. They can be used in **both internal and external* environments to give long term fire protection up to C4, ISO 12944-2 corrosive category**.

FIRETEX® FX1003 On-site – has certified loadings for periods of 15 to 120 minutes and is specifically formulated for on-site application, employing a high flash point solvent blend.

FIRETEX® FX2003 Off-site – has certified loadings for periods of 15 to 120 minutes and is specifically formulated for use in a paint shop environment, using a solvent blend developed to minimise the drying time and maximise shop throughput.



* When suitably sealed

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Ultra fast drying intumescent material **FX6000**

We **innovate** to ensure that our customers are the first to benefit from **pioneering advancements** in products, coatings and their application.

This **unique, patented, technology** allows even a **two hour fire protection system to be applied in a single coat** and be **ready to handle in around one hour**. Where maximum throughput is a paint shop's priority there is **nothing on the market which can match FIRETEX® FX6000**.

Designed for **off-site application**, FX6000 can be **used in environments up to C5 (ISO 12944-2)**. It has **excellent mechanical properties** which minimise damage from handling and erection of the coated steelwork.

At Sherwin-Williams we understand the **growth drivers for your business** and strive to deliver coatings **solutions without compromise**.



Ultra durable intumescent material **M95/02**

Derived from Sherwin-Williams' hydrocarbon fire protection materials which have **proven durability in the most harsh environments known**, including Northern Canada, the Arctic and the North Sea, M95/02 is a two component epoxy coating for **projects where durability in a challenging environment is the primary concern**.

Formulated to allow application, **on-site or off-site** using standard airless spray equipment **FIRETEX® M95/02 provides fire protection for up to two hours in all environments** for simple rolled steel items and cellular beams. Not only is the material highly durable, its mechanical characteristics make it **tough and resistant to the mechanical damage** which can be caused by handling and erecting steelwork coated with other fire protection products.



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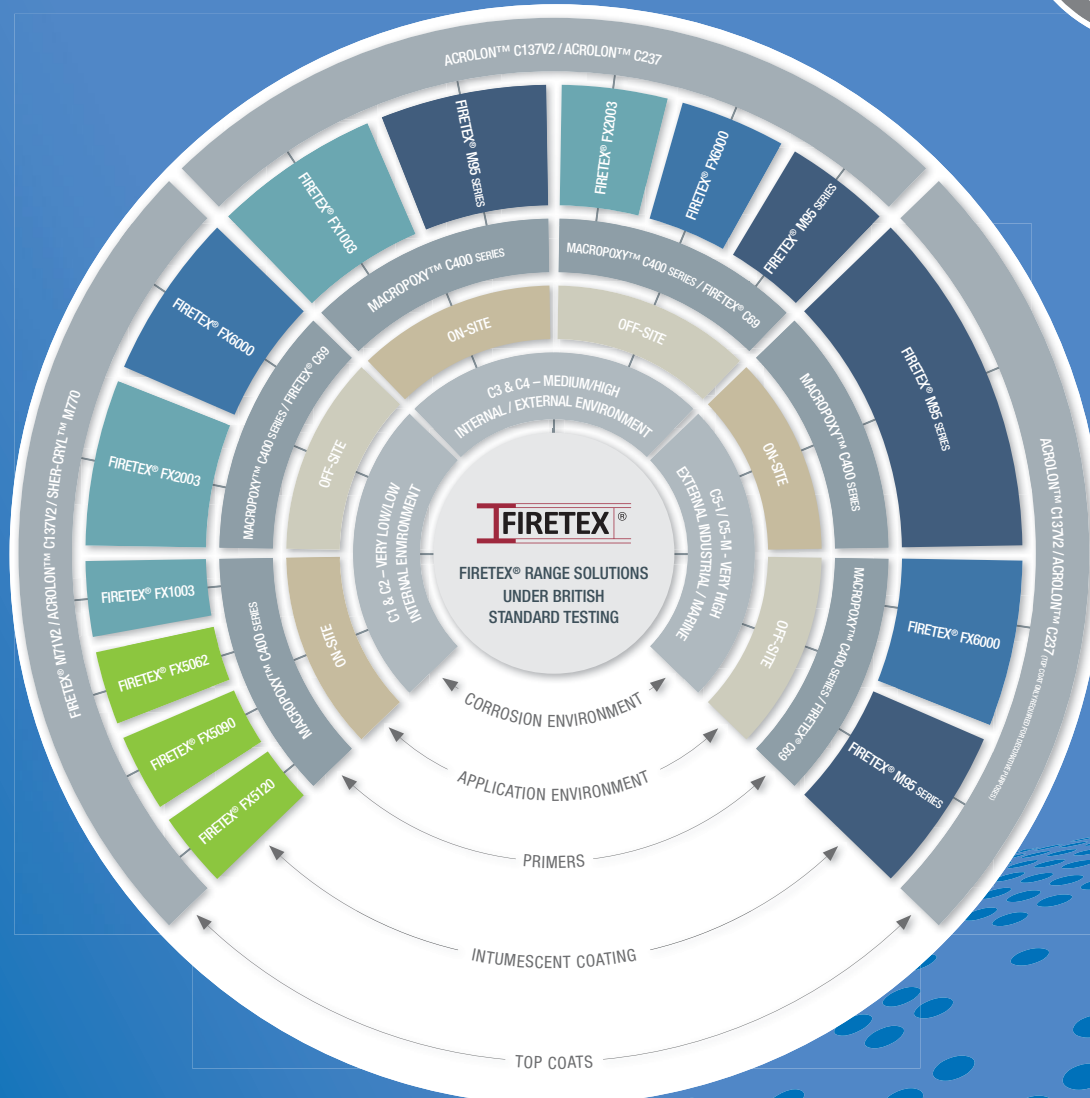
FIRETEX® Range for cellulosic passive fire protection



At Sherwin-Williams we want to help and support you every step of the way.

KEY:

- CORROSION ENVIRONMENT
- ON-SITE
- OFF-SITE
- PRIMERS
- WATER BASED FX5062/5090/5120
- SOLVENT BASED FX1003/2003
- RAPID DRY FX6000
- ULTRA DURABLE M95/02
- TOP COATS



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Primers and top coats

Sherwin-Williams coatings have been designed for optimum use in conjunction with our specially formulated primers and top coats. See the chart overleaf for Sherwin-Williams certified protection systems.

Primers

The key purpose of a primer is to protect blast prepared steel substrates from decay and in the event of mechanical damage to the coating, a primer will stop the spread of corrosion.

Top coats

A top coat keeps a coating looking at its best and ensures the full life of a coating is reached.

All intumescent coatings contain certain key ingredients necessary for the intumescent reaction. These ingredients are moisture sensitive and alongside careful formulation it is also essential to apply protective sealant coats to protect the properties of the fire protection from the weather. Sealer coats also offer a decorative finish to intumescent coatings.

In C1 & C2 environments a single component top coat may be used, for C3 & C4 environments a two component top coat will be specified. In a C5, highly corrosive environment a high durability intumescent (i.e. FIRETEX® M95 Series and FIRETEX® FX6000) should be used and a two component top coat specified for decorative reasons.

Sherwin-Williams Fire Engineering and Estimation Team

The Sherwin-Williams Fire Engineering and Estimation Team (FEET) offers expert advice on which coatings can be used in different sections of a building in order to maximise passive fire protection. The team comprises of highly qualified engineers who are dedicated to fire only. The service offered by the team is unique within the industry and is available seven days a week.

The process

When a project's details are submitted, including the application location, the highly trained engineers in Sherwin-Williams 'FEET' Team will determine the best material from the Sherwin-Williams range to meet the project's requirements. This applies whether or not it is for a single material or for an on-site 90 minute internal project with cell beams and a combination of four different coatings.

The service which Sherwin-Williams Fire Engineering and Estimation Team offer:

Technical advice	•
Training	•
Early concept advice	•
Bespoke fire protection calculating industry leading software	•
Standard FIRETEX® design	•
Fire engineering design	•

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The Sherwin-Williams Company

With over 150 years experience in the coatings industry we understand how critical it is that your investment gives you a quality, long term fire protection system, which performs in demanding environments.

Whether you specify FIRETEX® alone or in conjunction with Sherwin-Williams exceptional primers and topcoats, you can be assured that you are selecting a passive fire protection system that has been researched, developed and tested to the highest international standards.

Speak to your Sherwin-Williams representative to get an estimate on your next project using FIRETEX® intumescent materials.

To learn more, contact us

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