SHERWIN WILLIAMS®

FIRETEX® FX Systems

Cellulosic Passive Fire Protection

FIRETEX®

A brand of SHERWIN-WILLIAMS

FIRETEX® Passive Fire Protection Systems

Steelwork, New Construction and Maintenance

Form meets function with FIRETEX® FX systems.

Architects and engineers are reaching new heights and creative form in building construction. The world class FIRETEX® range provides a smooth, hard finish that allows flexibility and creative exposure of structural steel surfaces in building design, whilst also providing essential protection of steelwork from 30 – 120 minutes.

Protection You Can Trust

Whether you specify FIRETEX® alone or in conjunction with our 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.

Our extensive track record covers world renowned structures including the Al Khifaf Etisalat Tower Dubai, Sonkar Hilton Hotel Turkey, The Shard of Glass UK, Bay Arena - FC Bayer Leverkusen Germany, The Grand Mosque Abu Dhabi, Alder, Olympic Park and Alpika Railway Stations Russia, Heathrow T5 UK and the London Olympic Stadiums.

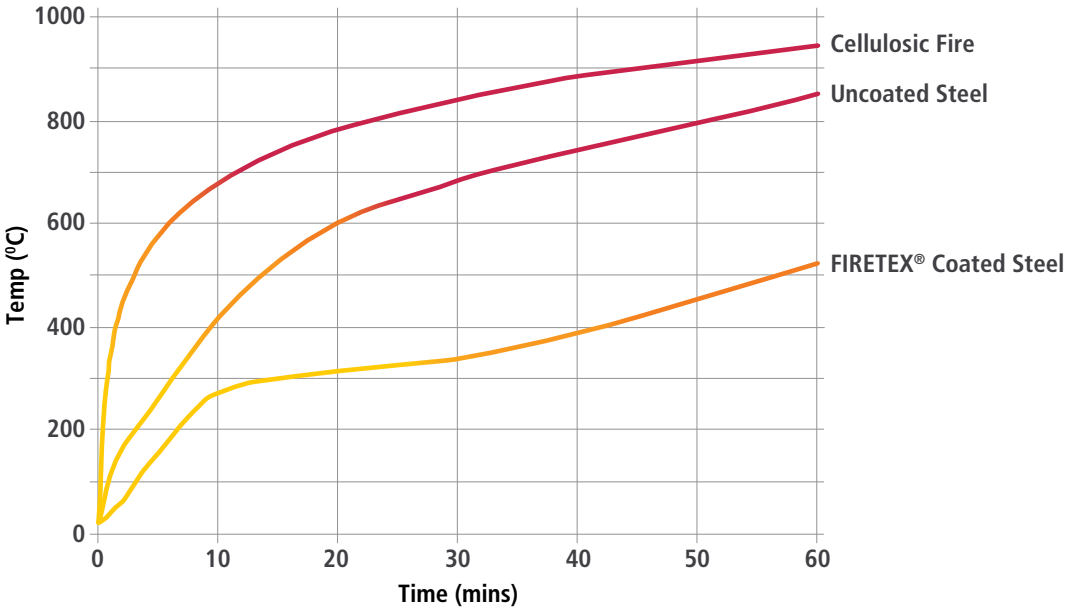
Cover image courtesy of William Hare Limited.

Our coatings protect a diverse assortment of buildings and infrastructure

FIRETEX® intumescent coatings react in fires, swelling to many times the original thickness to produce an insulating char or foam. This char reduces the rate of temperature rise in the steel for up to two hours, thus extending the time to reach structural failure.

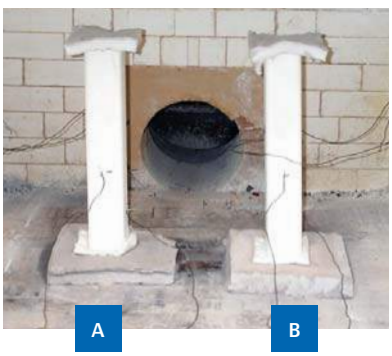
Fire Curve Graph

Below shows the standard fire curve graph depicting the rate of temperature rise over two hours.



Intumescent Reaction

Column A has 3.2mm of coating applied. Column B has 1.07mm of coating applied.



Above: Steel columns applied with FIRETEX® FX Range.

Above: Steel columns after fire test burn, with intumesced 'char'

System Types

We offer the most comprehensive portfolio of options to meet the specific requirements of a wide variety of projects.

- FIRETEX® water based systems have low odour and are ideal for confined areas. They fully meet the requirements of international environmental standards.
- FIRETEX® solvent based systems are fast drying and well suited for application year round.
- FIRETEX® epoxy based systems are specifically engineered for use where long term exterior durability is a primary concern. These systems can withstand exposure to the elements for up to 30 years.

Image courtesy of William Hare Limited.

Ease of use

Whether you need to coat in shop, or on site in all types of climate, FIRETEX® systems are designed with your considerations in mind.

- Application can be done with airless spray or by brush, providing applicators with ease of use and control.
- Fast application by airless spray provides minimal disruption to project contract schedules
- Good viscosity allows for a smoother, more aesthetically pleasing finish.
- FIRETEX® Mastic allows contractors to quickly repair damaged areas with no adverse effect on the overall fire protection.
- Over-coating can be done after just four hours
- Excellent storage stability saves time during the application process as it ensures minimum mixing or preparation before application – be it by brush or airless spray.

Image courtesy of William Hare Limited.

Life Expectancy

The FIRETEX® systems have been fire tested after ageing and weathering without any significant change in intumescent char production or insulating properties.

Under normal internal conditions the systems are expected to provide protection for the life of the project with minimal aesthetic maintenance.

Approvals

Third Party Verified

All FIRETEX® materials are independently tested, verified and certified to the most stringent international standards, including UL263, EN 13381-8, BS476 Part 20/21, DIN 4102 Part 2 and GOST 53295-2009.

Our systems are third party verified under the Certifire Scheme which is operated by Warrington Fire Research Centre, and audit inspection by the British Standards Institution. The Certifire Scheme provides assurance to specifiers, purchasers and users that the Sherwin-Williams production and quality control procedures are of a prescribed standard as described in ISO 9001, and that our product performance claims have been independently verified. You can be assured that the product you receive conforms to the same specification and formulation as the material originally tested.

Our FIRETEX® assessment is largely based upon tests carried out by a UKAS approved lab to BS476 Part 21:1:1987.

Explosion Proof Intumescent Materials

Although there is no legislative requirement anywhere in the world regarding explosion testing in civil construction, we have carried out gas explosion tests to ensure FIRETEX® thin film intumescent coatings enhance the safety of tall buildings. Witnessed by Bodycote Warrington Fire at Advantica Technology, Spadeadam UK, steel sections were protected using FIRETEX® range of cellulosic products and were subjected to a 104 msec explosive blast that generated 1697 mbar of overpressure. The sections were subsequently subjected to hydrocarbon fire.

The results reported by Advantica indicate that FIRETEX® intumescent coatings were unaffected by the gas explosion and Bodycote Warrington Fire concluded that the FIRETEX® products provided a significant level of hydrocarbon fire resistance.

Technical Support

At Sherwin-Williams we believe in offering you more than just the paint in our tins, we believe in offering you complete backup at all stages of your project - anywhere in the world. From bespoke specifications, site surveys or technical assistance, our teams of dedicated specialists are on hand to offer you assistance with every aspect of your project from start to finish.

Fire Engineering & Estimation Team

Our expert Fire Engineering and Estimation Team (FEET), lead by structural engineers, is ready to assist you with fire engineering solutions as early as concept stage

FDE Software

Our proprietary fire protection calculation software, the FIRETEX® Design Estimator (FDE), easily allows you to generate Hp/A calculations, corresponding intumescent coating thicknesses and performance based fire engineering solutions including cellular beams.

Image courtesy of William Hare Limited.

A COMPLETE LINE OF PRODUCTS.
MARKET EXPERTISE.
ON-TIME DISTRIBUTION.

What else would you expect from a world leader in protective coatings, linings, and fire protection?

It starts with a complete line of time-tested, high-performance products and some of the most innovative and greenest technologies in the coatings industry. But we know that it takes more than product alone to be a world leader in protective coatings and linings, and so do the customers that rely on us every day as we help them protect their business.

That's where nearly 150 years of coatings industry experience comes in. Add to that a NACE-trained workforce with a combined 3,700 years of experience in corrosion control. And the market-specific knowledge that our experts provide to evaluate, recommend and deliver the highest-performance coatings and linings that protect our customers' assets.

Leave nothing to chance. Your single source of supply. Sherwin-Williams.

SHERWIN-WILLIAMS®

To learn more, visit us at
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Protective & Marine Coatings 12/13 EMEA0060/V01