



SHERWIN-WILLIAMS®
Protective & Marine Coatings



FIRETEX®FX-6002

PATENTED TECHNOLOGY

UNIQUE AND INNOVATIVE NEW GENERATION
EPOXY INTUMESCENT COATING THAT PROVIDE
ULTRA FAST DRYING AND HIGH DURABILITY



FROM SPEC TO PROTECT

FIRETEX®

protectiveeu.sherwin-williams.com



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SHERWIN-WILLIAMS.

BUILDING OUR
FUTURE

WORLD CLASS FIRE PROTECTION SOLUTIONS

The Sherwin-Williams Company is a global leader in the manufacture, development, distribution, and sale of paint, coatings and related products. Founded in 1866, the company has grown to become the largest coatings company in the world by revenue.

It operates in over 120 countries and has a diverse workforce of more than 61,000 employees. Supported by 12 factories and 9 research and development centres across Europe, the company's mission is to innovate and grow in new and exciting ways, providing differentiated distribution and value added service to its customers.

Sherwin-Williams's technology is performance without compromise. In its 150-year-plus history, Sherwin-Williams has been committed to enhancing our customers' operations and accelerating their business growth with innovative, high-performance coating solutions, world class industry expertise, and unparalleled technical, specification and commercial service.

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 that performs in demanding environments.





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FIRETEX® FX-6002 MMA GAME-CHANGING TECHNOLOGY



FIRETEX® FX-6002 MMA unique and innovative patented technology was honoured with the prestigious Queens's Award for Enterprise 2021. The award celebrate breakthroughs in science and technology, recognize innovative organisations that use their vast expertise to develop unique innovations in their industry.

Our chemists used our proprietary reactive binder technology, the methyl methacrylate (MMA) binder system for the formulation of **FIRETEX® FX-6002**. The properties of the binder system include inherent low viscosity, which supports the application process, rapid and predictable drying and excellent mechanical and weathering durability. The effect of thechemically cured binder system, which differs from traditional water or solvent-based or epoxy intumescent coatings that rely primarily on water or solvent evaporation for drying, significantly outperforms all other traditional intumescent coatings as it allows the transportation of coated steelwork within hours as compared to days.

The inherent characteristics of the advanced reactive binder chemistry make it an ideal monomer for acrylic-based coatings. When polymerized, it forms acrylic resins that are known for their exceptional resistance to UV radiation, weathering, durability, high gloss and chemical stability. Hence **FIRETEX® FX-6002** is most ideal for applications exposed to harsh environmental conditions, coatings that offer long-lasting protection and maintain their visual integrity.

FIRETEX® FX-6002 MMA technology achieves lower dry film thickness due to its advanced reactive binder chemistry, rapid chemical curing and enhanced mechanical durability, allowing equivalent fire protection at thinner coatings, making it a valuable choice for enhancing the fire resistance and durability of structural steel:-



Enhanced Fire Resistance:

MMA coatings provide excellent fire resistance by forming a dense and uniform film quickly, reducing the need for thicker layers to achieve structural integrity and fire protection.



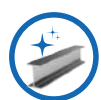
Mechanical Durability:

MMA is a versatile organic compound that forms acrylic resins known for their exceptional resistance to weathering, UV radiation, scratches and pollutants and a wide range of chemicals.



Chemical Resistance:

MMA coatings provide superior resistance to saltwater, corrosion and moisture, ensuring long-term durability to provide C1 to C5 environment protection with life durability.



Aesthetic Appeal:

MMA coatings deliver a smooth, glossy finish, maintaining color vibrancy for years, and a smooth appearance when in their natural state.



Longlasting Protection:

MMA coatings are weather resistance with long lasting years of performance when maintained appropriately, with 20 years' or more durability in most environments.



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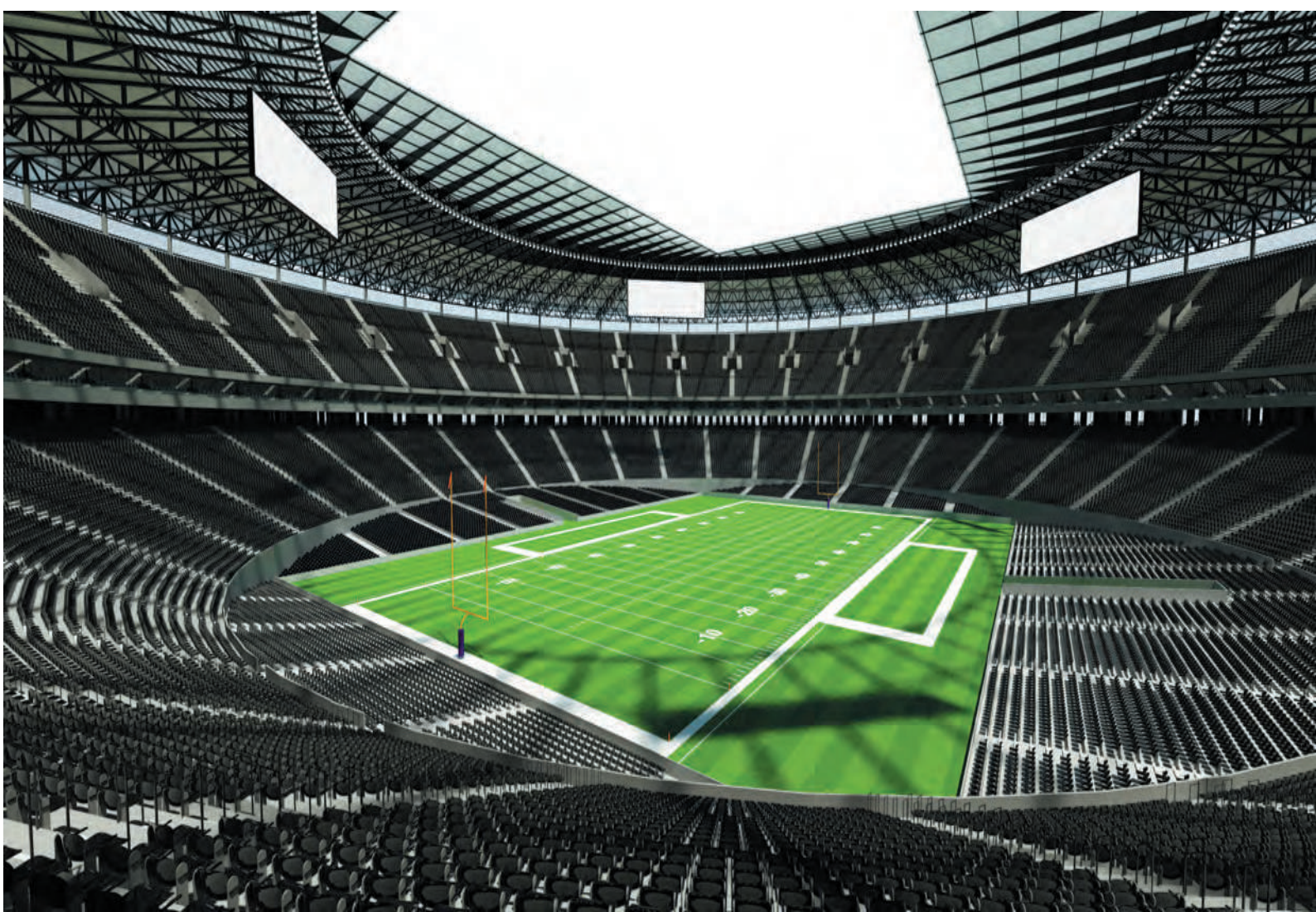
SHERWIN-WILLIAMS®
BUILDING OUR FUTURE

INNOVATION IS A KEY GUIDING VALUE OF OUR BUSINESS

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

Architects and engineers today are reaching new heights and creative form in building construction to achieve a decorative and highly desirable finish without compromising on quality. **FIRETEX® FX-6002** unique and innovative patented technology provides a visually pleasing, smooth and hard finish that allows flexibility and creative exposure of structural steel surfaces in building design, whilst providing essential fire protection to the structural steelworks.

It delivers unparalleled speed of drying, together with an excellent aesthetic appearance and fantastic resistance to handling, construction damage and 20 years exterior durability to support design flexibility and creative exposure of structural steel surfaces in building design.





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FIRETEX® FX-6002 PATENTED TECHNOLOGY

- Rapid drying, overcoating, inspection and hand-over, reducing impact on critical path for site application and maximising throughput when applied in shop
- Suitable for field or shop application
- Formulated for ease of application
- Early weathering resistance
- Excellent durability, with resistance to weather and damage, including during any transport and erection process
- Low VOC, reduces environmental impact
- Extensively certified
- Ultra-fast drying & curing with touch dry in 45 minutes
- Recoat in 1-hr and handling in 1-hr
- Applied in day 1 deliver on next day, as compared to 5 days
- C3 specifications with rapid weather resistant
- Highly durable, mechanical damage resistant. Suitable for use in a C5 ISO12944-2 environmental categories
- High levels of aesthetically appealing decorative finish
- Long term life service, reduced maintenance overheads





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DRY IN ONE HOUR, SAVE TIME AND MONEY

FASTER DRYING:

- Dry to handle or overcoat in just one hour. Imagine, a 120 minute hollow section painted, dried, DFT checked and topcoated in a single shift!
- Can be exposed to weather after just four hours. For site application, rain forecast later? No need to stop painting now.
- Mechanically tough and resilient to reduce risk of damage. Experience with **FIRETEX® FX-6002** has shown substantial reductions in transport and erection damage, **FIRETEX® FX-6002** has the same toughness and reduced DFT's.

INCREASED PRODUCTION THROUGHPUT:

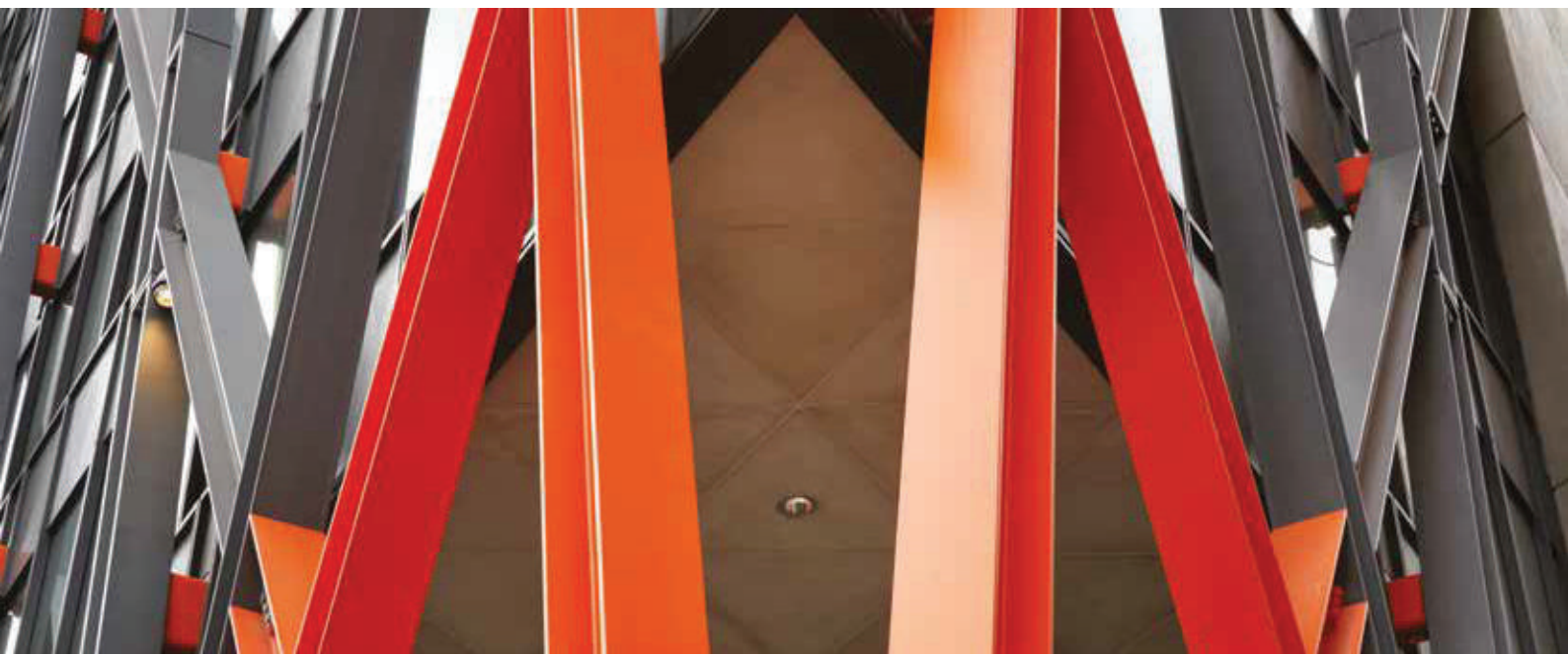
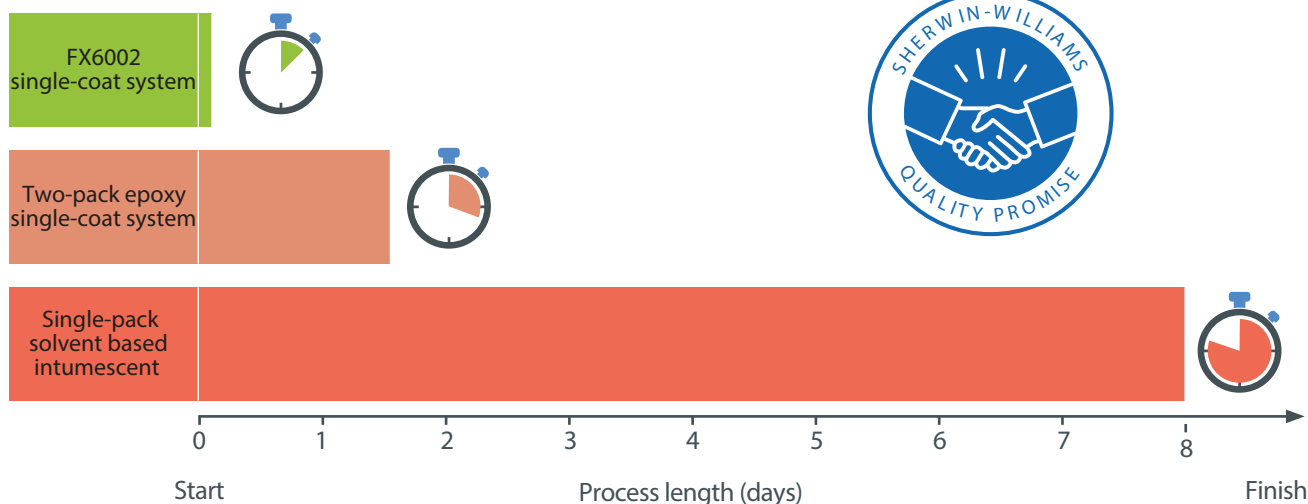
- Quick drying speeds up project timelines.
- May be specified without primer or topcoat, environment dependent.
- Efficiency gains as more items protected in a shorter time.
- Realise genuine cost savings.

FIRETEX®

DRYING TIME TO HANDLE:

Drying time to handle 120 minute protected Hp/A 60m-1 CHS at 15°C.

Drying time includes the number of coats and minimum overcoating period plus the dry to handle time for the respective products.





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FAST - TOUGH - SUSTAINABLE
EXCELLENT PROTECTION DURABILITY
PERFORMANCE WITHOUT COMPROMISE





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FIRETEX® INTUMESCENT FINISH STANDARDS

For fire protection on exposed and expressed architectural structural steel, understanding the requirements of finish are critical to ensuring satisfaction with the finished project. Various finishes may be achieved using the FIRETEX® range of products to maximize aesthetic satisfaction and minimize unnecessary cost. A variety of finish standards can be achieved depending on the look desired and the available budget. The level of finish, however, has no bearing on the achieved FRL.



Level of Finish No: 1 – Basic

Description: Visible spray/roller marks, uneven surface

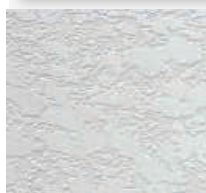
Typical use: Concealed steel (e.g. ceiling voids, service areas)



Level of Finish No: 2 – Decorative/Industrial

Description: Reasonably smooth but imperfections visible on close view

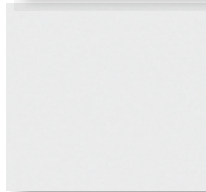
Typical use: Exposed steel in Public area in close proximity (> 3m visual proximity)



Level of Finish No: 3 – Decorative

Description: Visible spray/roller marks, uneven surface

Typical use: Exposed steel in public area in close proximity (within 3m of the steel surface)



Level of Finish No: 4 – Ultra Decorative

Description: Very smooth, high quality finish, free of visible defects even under strong lighting at close viewing distance, comparable to high-end architectural paint

Typical use: Only at front of house areas where persons can come right up next to the steel





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INTERNATIONAL STANDARDS APPROVALS

FIRETEX® FX-6002 intumescent coatings has been independently 3rd party tested and assessed to the most stringent International Fire Testing Standards in order to provide our customers with unique and compliant fire protection solutions. It has been rigorously fire tested under the requirements of European fire testing standard EN13381-8 & 9 and British Standard BS 476-20 & 21 for structural steelwork and cellular beams. In addition, our expanded portfolio of high-performance coatings and systems is also engineered to defend assets against corrosion, chemical attack, wear, or high temperatures. With a world-class industry subject matter expertise, unparalleled technical and specification service and unmatched regional commercial team support to our customers around the globe, we offer high-performance coating systems to help customers achieve smarter, time-tested asset protection.

APPROVALS:

- ASTM E119
- ETA-20/1261
- BS 476-20/21: 1987
- UL263 UL listing: Y660
- UL classified - UL CDYD & CDXA
- Certifire Certificate CF5644
- AS4100 Certification: WF409488
- CE Mark No: 2812-CPR-GA5038
- EN16623: 2015 & EN13381 part 8 & 9
- Durable coating can be specified for use in external up to C5 environment as defined in ISO 12944-2



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ASFP
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LIFE EXPECTANCY AND SUSTAINABILITY

The environmental concerns were an important consideration early on in the process. Our research and development teams discovered that the chemistry gave off 90% lower volatile organic compounds compared to similar products. The applicators are exposed to fewer harmful emissions especially when applied in-shop in a controlled environment rather than on-site. The product is certified to EN 16516 for low volatile emissions. There is also the reassurance of LEED 4.1 compliance, the leading green building project and performance management system. This collaborative work is now gaining a following among specifiers, contractors, fabricators and applicators, particularly due to the large demand for construction environments which are greener and healthier to work in.

The **FIRETEX® FX-6002** 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. Durability testing under ETAG 18 Part 2 it proved they met the criteria for Type X, internal, semi-exposed and exposed locations. **FIRETEX® FX-6002** is mechanically tough and resilient to reduce risk of damage, with enhanced durability to provide C1 to C5 environment protection with a life expectancy of more than 20 years.

EXCELLENT PROTECTION DURABILITY

Fire
Protection

2-Hrs

Corrosive
Environments

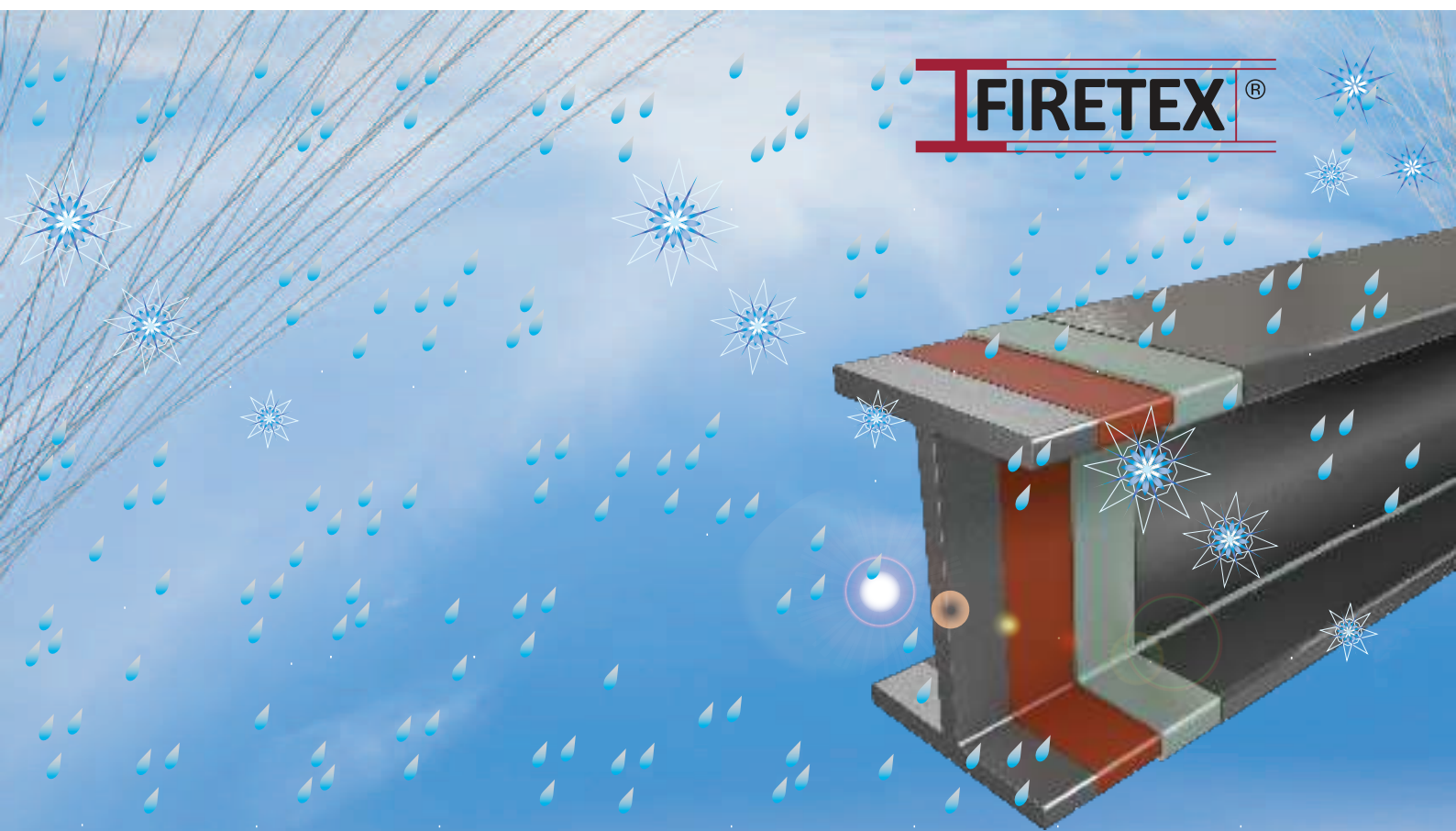
C1-C5

UL 2431
Durability

>20yrs



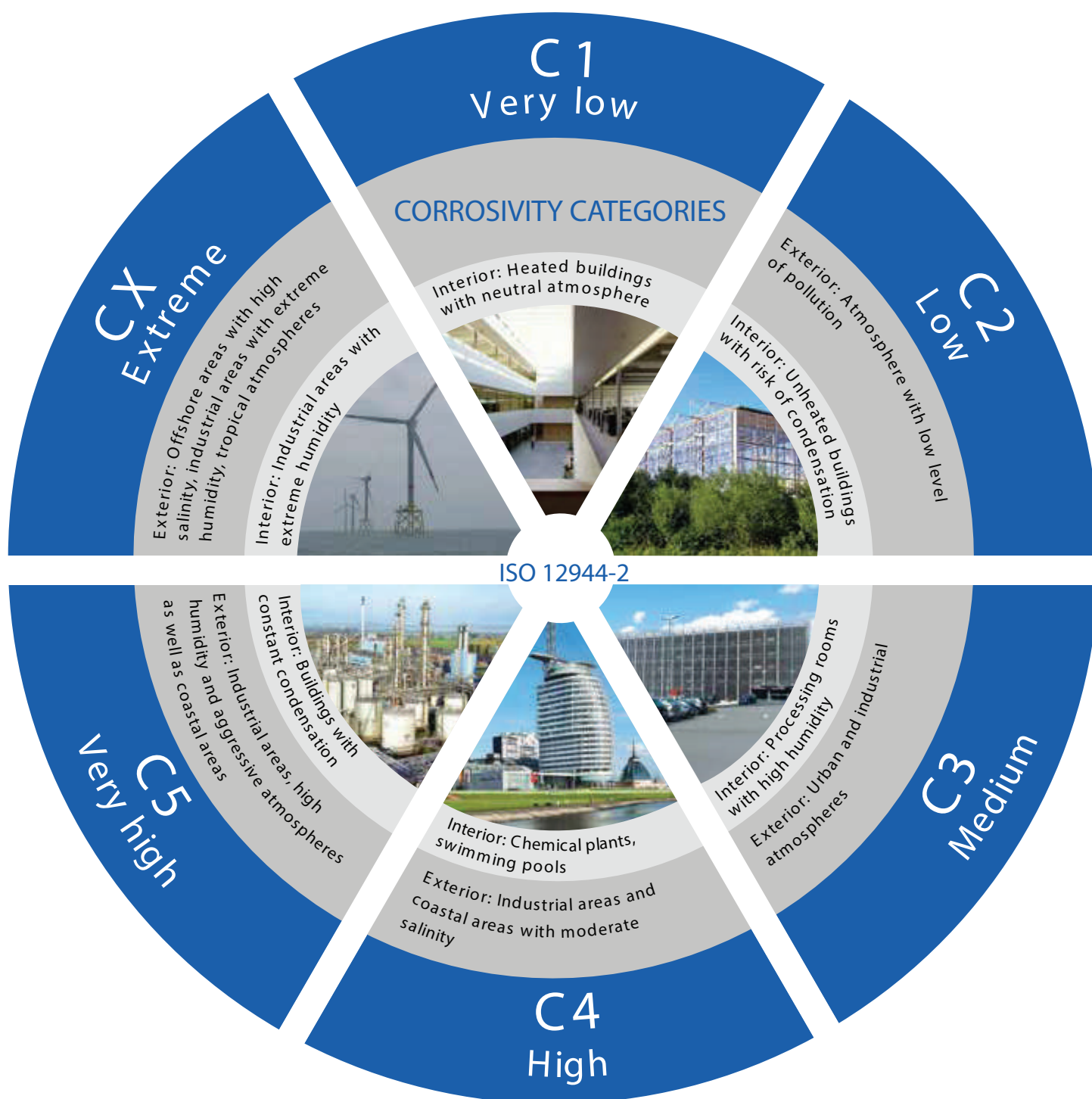
LEED v4 & v4.1 certified,
& 3rd party EPD generated





PERFECT RESULTS FROM INNOVATIVE AND PROVEN COATING SYSTEMS

Coatings for the corrosion protection of structural steel are exposed to specific corrosion loads depending on the ambient conditions. These are defined in ISO 12944-1,-2 depending on durability range and corrosivity category. The corrosivity categories were restructured in the 2018 revised standard and now range from C1 to CX. Category CX (part 9 of the standard) refers to extremely corrosive environments, particularly offshore and industrial areas with extreme humidity. Based on many years of experience, it is now possible to provide coating systems for steel with more than 25 years of durability in almost all atmospheric load ranges. As a result, increasing the durability range to more than 25 years has now been possible.



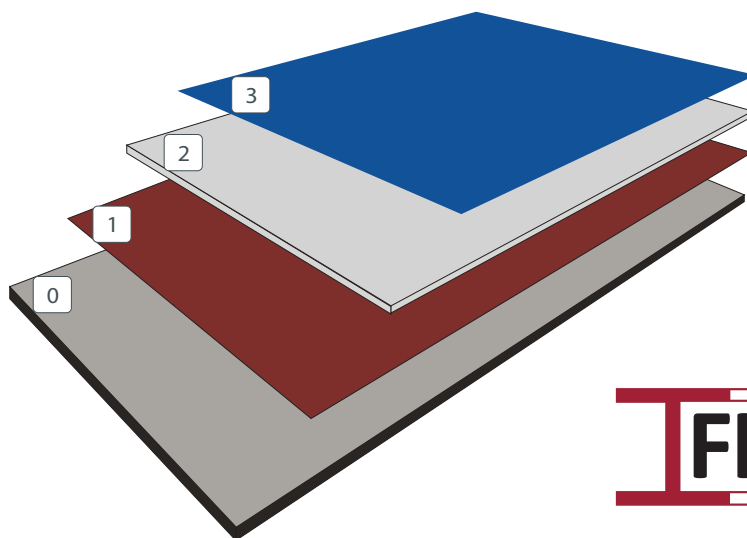


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CORROSION PROTECTION ACCORDING TO ISO 12944-5: 2019 DURABILITY PROTECTION ACCORDING TO ETAG 18-PART 2 LOW VOC CERTIFIED TO EN16516 & LEED 4.1 COMPLIANCE



FIRETEX®

C1 to C3 corrosive environments Direct-to-metal without topcoat:

- 3 Durability Protection Topcoat:
Against Weathering & UV (Not Required)
- 2 Fire Protection Intumescent:
FIRETEX FX6002 or FIRETEX FX 5090
- 1 Corrosion Protection Primer:
SW Macropoxy 400 or equivalent
- 0 Carbon Steel Surface Treatment:
Hot dip galvanizing BS EN 1461 or
Blast clean to Sa2½ BS EN ISO 8501-1:2007

C1 to C3 corrosive environments Optional aesthetic topcoat:

- 3 Durability Protection Topcoat:
SW Acrolon 7700 or equivalent
- 2 Fire Protection Intumescent:
FIRETEX FX6002 or FIRETEX FX 5090
- 1 Corrosion Protection Primer:
SW Macropoxy 400 or equivalent
- 0 Carbon Steel Surface Treatment:
Hot dip galvanizing BS EN 1461 or
Blast clean to Sa2½ BS EN ISO 8501-1:2007

Up to C5 corrosive environments:

- 3 Durability Protection Topcoat:
SW Acrolon 7700 or equivalent
- 2 Fire Protection Intumescent:
FIRETEX FX6002 or FIRETEX FX 5090
- 1 Corrosion Protection Primer:
SW Macropoxy 400 or equivalent
- 0 Carbon Steel Surface Treatment:
Hot dip galvanizing BS EN 1461 or
Blast clean to Sa2½ BS EN ISO 8501-1:2007

Up to C5 corrosive environments Ultra-fast dry-to-handle topcoat solution:

- 3 Durability Protection Topcoat:
SW Envirolastic 2500 or equivalent
- 2 Fire Protection Intumescent:
FIRETEX FX6002 or FIRETEX FX 5090
- 1 Corrosion Protection Primer:
SW Macropoxy 400 or equivalent
- 0 Carbon Steel Surface Treatment:
Hot dip galvanizing BS EN 1461 or
Blast clean to Sa2½ BS EN ISO 8501-1:2007



TYPES OF PASSIVE FIRE PROTECTION

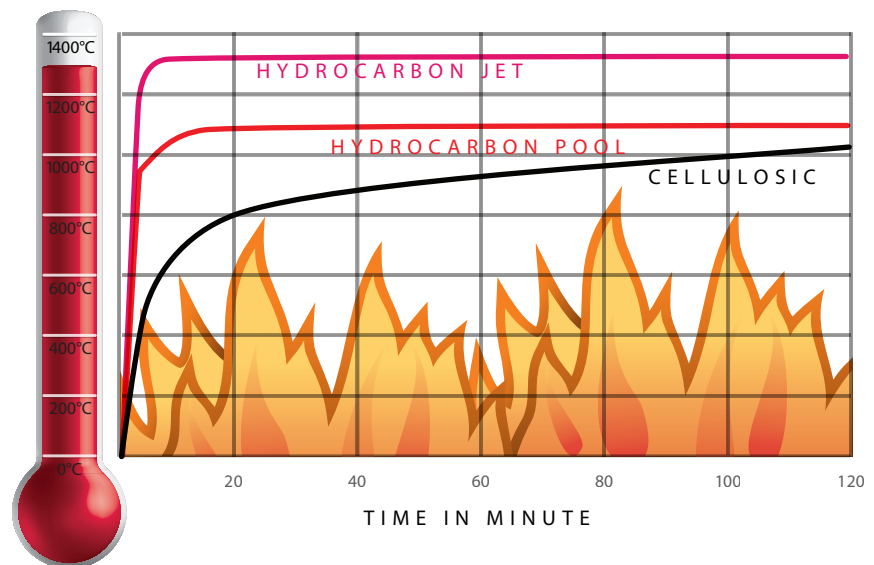
There are 3 main types of fire, and the location of the fire will determine the speed and heat of the blaze. Cellulosic fires fuel sources are cellulose, e.g. wood, cardboard, paper, cotton, etc. They take longer to reach their peak heat than a hydrocarbon fire, and will not burn as hot. Hydrocarbon fires are those that burn because of a combustible liquid or accelerant like petrol or chemicals. They burn hot and extremely fast. Jet fires is a special type of hydrocarbon fire and rapid rise fires, e.g. tunnels, nuclear fires, etc.

Cellulosic Fires:

- Occur when burning wood, textiles, paper
- Civil construction industry
- Fire protection rating @ 2 hours
- Passive Fire Protection - Category 1 - tall buildings, factories, warehouses, stadiums, bridges, etc.

Hydrocarbon Fires:

- Occur when burning oil or gas
- Oil and gas or petrochemical industry
- Fire protection rating @ 4 hours
- Passive Fire Protection Category 2 - oil & gas, refineries, petrochemical plants, etc.



FIRE ENGINEERING AND ESTIMATION TEAM

Sherwin-Williams's Fire Engineering and Estimating Team (FEET) carried out structural analysis of the steelwork under fire loading. FEET's unique blend of experience and expertise means it can offer fire engineering information and solutions as early as the concept stage.

By using Sherwin-Williams' **FIRETEX®** Design Estimator (FDE) software, complex fire calculations can be made for both cellulosic and hydrocarbon fire preparedness, to calculate thicknesses across multiple fire rating time frames against our extensive product range to provide the most economical, cost effective and fire-safe solution for the project. This also includes advanced structural fire engineered approaches. The team design for both cellulosic and hydrocarbon fire scenarios. Data can be seamlessly shared back to the 3D BIM model for future building maintenance and fire management.





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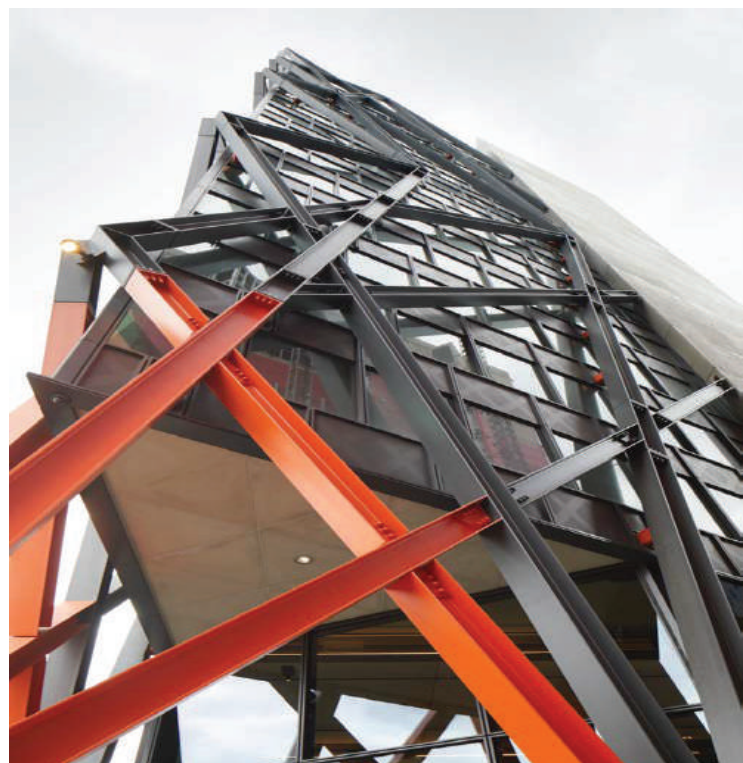
BUILDING OUR
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BRUNEI BUILDING LONDON

High performance [FIRETEX® FX-6002](#) system protects the innovative new office development. The Brunei Building in Paddington, London, is an imaginative structure providing a large open space work area, and takes its name from the famous civil engineer, Isambard Kingdom Brunei, in recognition of pioneering work in structural (and cast) steel designs.

The 16-floor, 22,500m² office building features a 3.5m high column-free space throughout due to its unique structural design. This innovative building received a Gold in the 2016 London Design Award, a Structural Steel Design in 2020, and has been shortlisted from several others.

The [FIRETEX® FX-6002](#) system ensured fast shop throughput, with minimum transport and handling damage allowing the contractor to meet deadlines and keep the build on track, whilst offering the desired durability and fire protection.





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LEADENHALL BUILDING LONDON



The building contains 610,000 ft² of office space, incorporates 18,000 tonnes of steel. In its concept, the structure was to have no central concrete core, with an external steel frame as well as a central steel core providing lateral stability and featuring 26 passenger lifts at its northern core.

This presented numerous challenges throughout the construction phase for architects, engineers and and for Sherwin-Williams as supplier of coatings for corrosion and fire protection. Sherwin-Williams used 610,000 m² of **FIRETEX® FX-6002** protection coatings on the project. The development's tapering shape, which when viewed from the west will appear to 'lean away' from St Paul's Cathedral, delivers varied floor plates, all offering spectacular views over London.





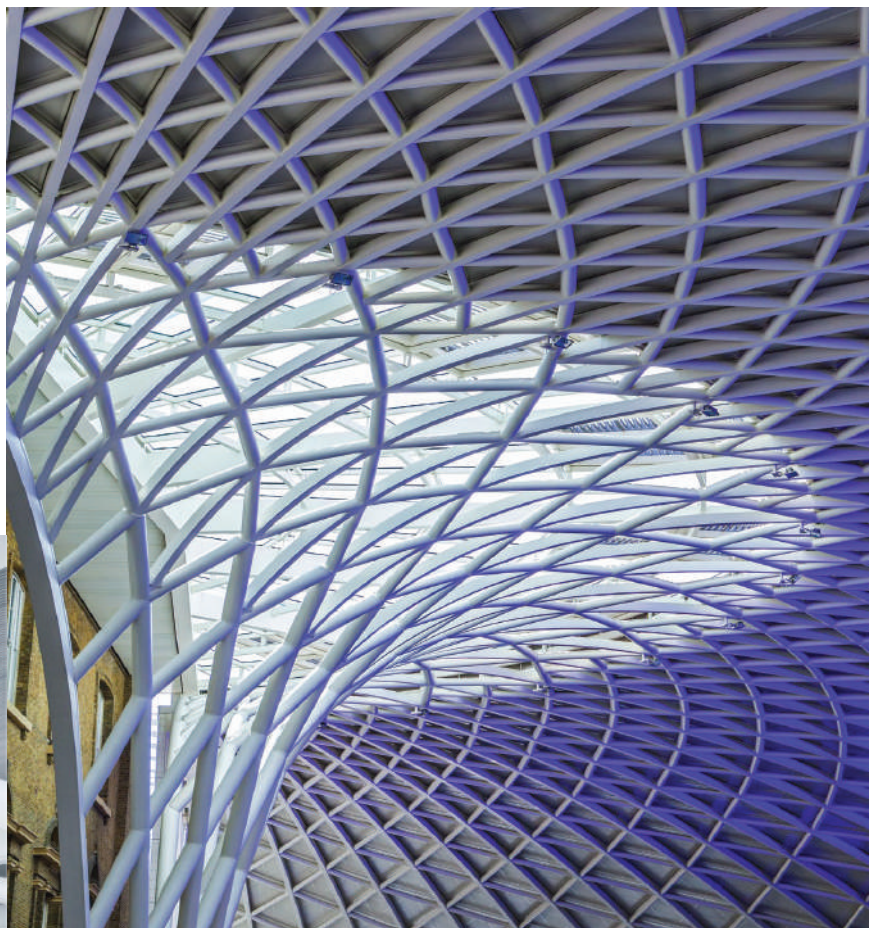
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LONDON HEATHROW AIRPORT T5

Opened in 2008, the main building complex is the largest free-standing structure in the UK, and is designed to handle 35 million passengers a year. The main terminal building is 396 m long, 176m wide and 40 m tall. Its four storeys are covered by a single-span undulating steel frame roof, and it is the size of five football pitches with each section weighing 2,200t. The building cost £4bn to construct, with over 60,000 people involved in its construction, including Sherwin-Williams. 850,000 L of **FIRETEX® FX-6002** products were used in the construction.





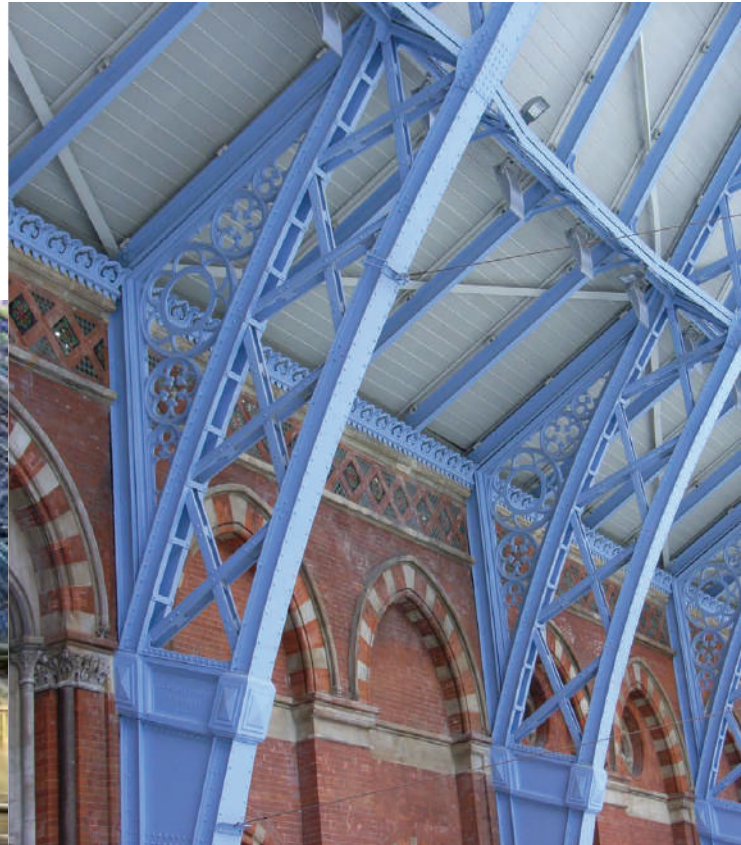
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ST. PANCRAS INTERNATIONAL STATION

Serving over 6.5M passengers each year, the undercroft area at St. Pancras International Station includes 680 cast iron columns, cross members and buckle plates, all of which required a coating specification to give at least 25 years anti-corrosion protection, 60 minutes passive fire protection to a preferable finish with [FIRETEX® FX-6002](#).





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EXPERTISE TO HELP GUIDE YOUR PROJECT SUCCESS

Sherwin-Williams delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high performance coatings and systems helps customers achieve smarter, time-tested asset protection.

Contractors face a number of unique challenges in the coatings industry today, from finding qualified workers and executing successful projects to costly production chain holdups and rigorous inspections. Working with an experienced, field-tested Technical Service Team can help alleviate many of these issues. Including a trusted technical resource in your coatings process will help complete your project quickly with minimal touch-up work.





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ABOUT SHERWIN-WILLIAMS

The Sherwin-Williams Company (NYSE: SHW) is a global leader in the development, manufacture, distribution and sale of paint, coatings and related products to professional, industrial, commercial and retail customers.

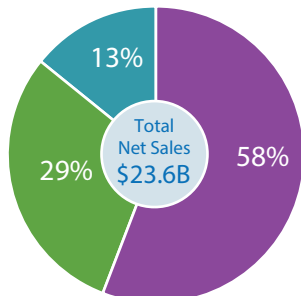
Founded in 1866 by Henry Sherwin and Edward Williams, our Company has spent more than 150 years creating a legacy of growth, creativity and innovation. With global headquarters in Cleveland, Ohio, Sherwin-Williams' branded products are sold exclusively through a chain of more than 5,000 Company-operated stores and branches, while our other brands are sold through leading mass merchandisers, home centers, independent paint dealers, hardware stores, automotive retailers and industrial distributors. We also supply a broad range of solutions for the construction, industrial, packaging and transportation markets in more than 120 countries around the world. Enabling all of this work are our employees - the pride of our Company - who bring their technical expertise, customer service mindset, innovative energy and commitment to safety to all we do.

64,000+
Employees

120+
Countries

5,600+
Stores and Branches

130+
Manufacturing and Distribution Facilities



2025 Net Sales by Segment

- Paint Stores Group
- Performance Coatings Group
- Consumer Brands Group

Our Global Reach

Key: ■ Paint Stores Group ■ Consumer Brands Group ■ Performance Coatings Group

Canada

263 ■ Paint Stores
23 ■ Branches & Facilities
5 ■ Facilities

United States

4,504 ■ Paint Stores
219 ■ Branches & Facilities
62 ■ Facilities

Caribbean

86 ■ Paint Stores
2 ■ Facilities

Latin America/South America

307 ■ Paint Stores
24 ■ Branches & Facilities
21 ■ Facilities

Europe, Middle East, Africa and India (EMEA)

56 ■ Branches & Facilities
21 ■ Facilities

Asia-Pacific

7 ■ Branches & Facilities
9 ■ Facilities

Africa

1 ■ Facility

Australia

1 ■ Facility



THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams Protective & Marine delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high-performance coatings and systems that excel at combating corrosion helps customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including oil and gas, water and wastewater, bridge and highway, steel fabrication, flooring, food and beverage, rail and power, marine and passive fire protection.

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