



**SHERWIN  
WILLIAMS®**

# FIRETEX® PLATINUM TECHNOLOGY

2-PACK FIRE PROTECTIVE COATINGS



> R30 > R60 > R90 > R120

FROM SPEC TO PROTECT

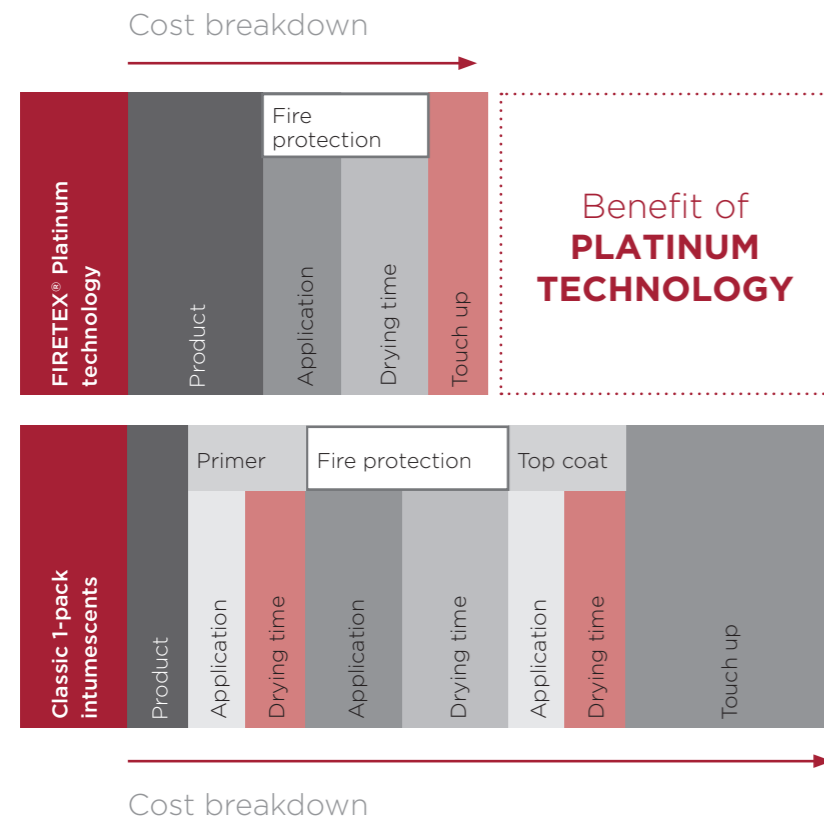
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# PLATINUM TECHNOLOGY 2-PACK EPOXY: FAST – TOUGH – SUSTAINABLE



The technology of FIRETEX® Platinum has been developed by our research team as a new generation of intumescent coatings. In cooperation with selected partners, our sales and technical marketing established this pioneering innovation onto the market in 2012.

Platinum Technology differentiates itself from conventional 1-pack fire protection coatings through decisive properties. Fast drying, transportability without damage and the reduced number of operations enable the process to be optimised and reduce the cost of your fire protected steel structure.



## YOUR BENEFITS AT A GLANCE



### IN-SHOP APPLICATION

Ready for transport and assembly without restrictions after 24 hours

### SOLVENT-FREE

Meets requirements according to DGNB, LEED and BREEAM

### HIGH MECHANICAL LOAD CAPACITY

Outdoor storage of the coated steel components is possible

### 2 IN 1: FIRE PROTECTION + CORROSION PROTECTION

Tested as a coating system for C5 very high according to ISO 12944-6

# PRODUCT OVERVIEW APPLICATION

## R30 > R60 > R90 > R120



	<b>FIRETEX® Platinum-30</b> The economical one	<b>FIRETEX® Platinum</b> The innovative one	<b>FIRETEX® Platinum-120</b> The persistent one					
TECHNOLOGY	<ul style="list-style-type: none"> <li>Life expectancy &gt; 25 years</li> <li>No primer and no top coat needed for outdoor application, type X</li> <li>Fast curing, transportable and ready to assemble 24 hours after application</li> <li>Film thickness up to 2 mm in one coat</li> <li>100% solids</li> <li>Excellent corrosion protection according to ISO 12944-6</li> <li>High mechanical impact, shock and abrasion resistance, therefore minimising transport and handling damage</li> <li>Cleanable surface by high pressure water jetting</li> <li>Flexible application with single or plural airless equipment</li> </ul> <ul style="list-style-type: none"> <li><b>30% less consumption of R30 compared to FIRETEX® Platinum</b></li> <li><b>Fire protection up to R45</b></li> </ul>	<ul style="list-style-type: none"> <li>Life expectancy &gt; 25 years</li> <li>No primer and no top coat needed for outdoor application, type X</li> <li>Fast curing, transportable and ready to assemble 24 hours after application</li> <li>Film thickness up to 4 mm in one coat</li> <li>100% solids</li> <li>Excellent corrosion protection according to ISO 12944-6</li> <li>High mechanical impact, shock and abrasion resistance, therefore minimising transport and handling damage</li> <li>Cleanable surface by high pressure water jetting</li> <li>Flexible application with single or plural airless</li> </ul>	<ul style="list-style-type: none"> <li>Life expectancy &gt; 25 years</li> <li>No primer and no top coat needed for outdoor application, type X</li> <li>Fast curing, transportable and ready to assemble 24 hours after application</li> <li>Film thickness up to 4 mm in one coat</li> <li>100% solids</li> <li>Excellent corrosion protection according to ISO 12944-6</li> <li>High mechanical impact, shock and abrasion resistance, therefore minimising transport and handling damage</li> <li>Cleanable surface by high pressure water jetting</li> <li>Flexible application with single or plural airless equipment</li> </ul> <ul style="list-style-type: none"> <li><b>25% less consumption of R60 compared to FIRETEX® Platinum</b></li> <li><b>Fire protection up to R150</b></li> </ul>	TECHNOLOGY				
APPROVALS	<ul style="list-style-type: none"> <li>ETA 20/1160</li> <li>Certificate of Conformity 0761-CPR-0971</li> <li>EUROFINS Indoor Air Comfort Gold</li> </ul>	<ul style="list-style-type: none"> <li>ETA 20/1159</li> <li>Certifire Certificate CF821</li> <li>Certificate of Conformity 0761-CPR-0388</li> <li>EUROFINS Indoor Air Comfort Gold</li> <li>Various international approvals</li> </ul>	<ul style="list-style-type: none"> <li>ETA 20/1162</li> <li>Certifire Certificate CF5396</li> <li>Certificate of Conformity 0761-CPR-0972</li> <li>EUROFINS Indoor Air Comfort Gold</li> <li>Various international approvals</li> </ul>	APPROVALS				
SUSTAINABILITY	<ul style="list-style-type: none"> <li>Free from halogens</li> <li>DGNB</li> <li>LEED v4</li> <li>BREEAM</li> </ul> <ul style="list-style-type: none"> <li><b>Free from solvents and VOCs</b></li> <li><b>Free from benzyl alcohol</b></li> </ul>	<ul style="list-style-type: none"> <li>Free from halogens</li> <li>DGNB</li> <li>LEED v4</li> <li>BREEAM</li> </ul> <ul style="list-style-type: none"> <li><b>Free from solvents acc. to VdL-RL-04</b></li> </ul>	<ul style="list-style-type: none"> <li>Free from halogens</li> <li>DGNB</li> <li>LEED v4</li> <li>BREEAM</li> </ul> <ul style="list-style-type: none"> <li><b>Free from solvents and VOCs</b></li> <li><b>Free from benzyl alcohol</b></li> </ul>	SUSTAINABILITY				
FIRE RESISTANCE	R30	>	R60	>	R90	>	R120	FIRE RESISTANCE

# THE INNOVATIVE ONE FIRETEX® PLATINUM

FIRETEX® Platinum started as a genuine innovation and very quickly established itself on the market thanks to its outstanding product features. Since then, over one million square metres of steel have been coated with the 2-pack intumescent coating. In addition to the existing new developments for the fire resistance ratings R30 and R120, FIRETEX® Platinum has proven above all to perform particularly well for requirements from R45 to R90.



## TOUGH IN-SHOP COATING

After drying, the solvent-free 2-pack EP formulation can be

- subjected to high mechanical loads,
- withstands all weather influences and
- is ready for transport and assembly after 24 hours.

These properties open up new possibilities in steel construction, as they simplify and accelerate the construction process.

## 2 IN 1: FIRE PROTECTION + CORROSION PROTECTION

FIRETEX® Platinum offers fire protection and corrosion protection in one and has been tested and certified in accordance with ISO 12944-6 up to corrosivity category C5 high.

**The most important testing method for verifying a corrosivity category is the salt spray test.**

- This cannot be carried out with conventional intumescent coatings, since the approval does not allow for defects or damage to the fire protection.
- FIRETEX® Platinum withstands the salt spray test, as a result of which the surface exhibits a closed film even after corrosivity testing and maintains its function as a fire protection coating.
- This performance capability has been verified in fire tests by independent institutes, confirmed by the ETA European Technical Document and will be monitored in future through continuous external inspections.

## FIRE TEST



Fig. left: Coated test specimen before fire



Fig. right: Foamed test specimen after fire

# THE ECONOMICAL ONE FIRETEX® PLATINUM-30

## EFFICIENT - COST - EFFECTIVE - SUSTAINABLE

The 2-pack epoxy resin-based fire protective coating benefits from the well-known advantages of the technology and is tailored to the fire-resistance rating up to R45. As an ultra-thin coating, FIRETEX® Platinum-30 offers a considerable saving of material in comparison to FIRETEX® Platinum for R30 requirements. Furthermore independent institutes have confirmed a lifetime of more than 25 years.



### MEETS REQUIREMENTS ACCORDING TO ISO 12944-6:2018

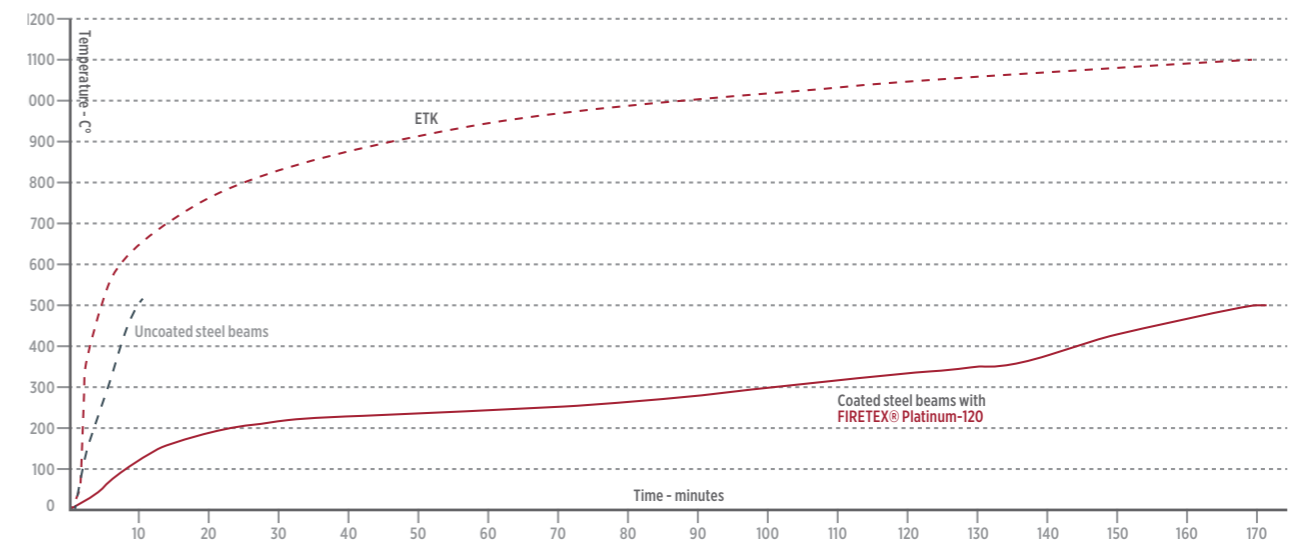
- **High performance corrosion protection:**  
Up to C5 - very high as a coating system
- **Long-lasting protection:**  
Very high, over 25 years

# THE PERSISTANT ONE FIRETEX® PLATINUM-120

## TOUGH - FAST - PERSISTANT

FIRETEX® Platinum-120 completes the performance spectrum of the Platinum Technology. As a long-term performer, the intumescent coating attains maximum performance and lifetime with fire resistance rating of up to 150 minutes. Depending on the section factor HP/A it achieves consumption savings in comparison with FIRETEX® Platinum for R60 requirements.

### LONG-TERM FIRE PROTECTION UP TO 120 MINUTES





## ARENA 2036 IN STUTT GART

**The largest and leading research platform for mobility in Germany was created at the University of Stuttgart in the ARENA2036.**

The innovative campus for the automotive industry focuses firstly on function-integrated products in a lightweight design and secondly on the highly efficient and sustainable production of sustainable automotive technology.

From the outside, the research campus has the appearance of a sawtooth roof construction with a folded aluminium and plastic facade that surrounds a hall with a floor space of about 5,000 m<sup>2</sup>, virtually without columns.

An overhead crane track enables experimental setups in any place. All steel beams in the new research building were protected to R30 using FIRETEX® Platinum. The 2-pack epoxy resin-based fire protective coating was applied directly on the steel and is suitable for use in a C3 environment without primer and top coat. External tests by the manufacturer confirm a lifetime of the fire protection coating of at least 25 years with no special maintenance requirements.

Acrolon® PUR in traffic white was used as a top coat. Thanks to in-shop coating, no other trades were disturbed by spray mist and smells on the building site. In addition, the off-site coating application enabled a significantly faster construction process on site, because it was possible to deliver the beams to the building site just 24 hours after the application.

### FAST

- In-shop coating
- Transportable and ready to assemble after 24 hours

## PUBLIC LIBRARY IN BAD VILBEL

**The Bad Vilbel library construction project shows that coated structural elements can also be stored outdoors.** The steel beams and columns coated with FIRETEX® Platinum were stored for some time on the river bank, where the library was to be built later on as a bridge over the River Nidda.

The patina which developed during that time was simply and quickly removed by using high-pressure cleaners, as the Platinum Technology exhibits high resistance to shock, impact and abrasion. This allows the coated steel beams to be taken to the desired destination without transport damage.

A further reason for worry-free storage in the open air is the fact that the technology of FIRETEX® Platinum offers protection against corrosion and fire in one. Without priming and top coats, the fire

protective coating has been tested in accordance with ISO 12944 to the corrosivity category C3 and as a coating system even to C5 very high.

### ROBUST

- Outdoor storage
- Mechanically resistant
- Additional corrosion protection



High-pressure cleaning of the steel beams



Public library

# EXHIBITION HALL 3A IN NUREMBERG

The DGNB (Deutsche Gesellschaft für nachhaltiges Bauen [German Sustainable Building Council]) recommends the use of intumescent coatings with a low VOC content (volatile organic compounds) for fire protective coatings.

Aqueous fire protective coatings for steel meet this specification, but can only be used indoors or in open halls. The solvent-free Platinum Technology on the other hand also meets the DGNB special requirement but is the only product that is also qualified for outdoor use without the use of primer and top coat.

The 2-pack epoxy system also provides fire protection for a steel surface of around 600 m<sup>2</sup> in Hall 3A of the Nuremberg Exhibition Centre.

Through the target-oriented and systematic consideration for new energy standards and the consequent concentration on sustainability in planning, construction and operation, Hall 3A was the first German trade fair hall to be awarded with

the DGNB Platinum Certificate according to the standards of the German Sustainable Building Council.

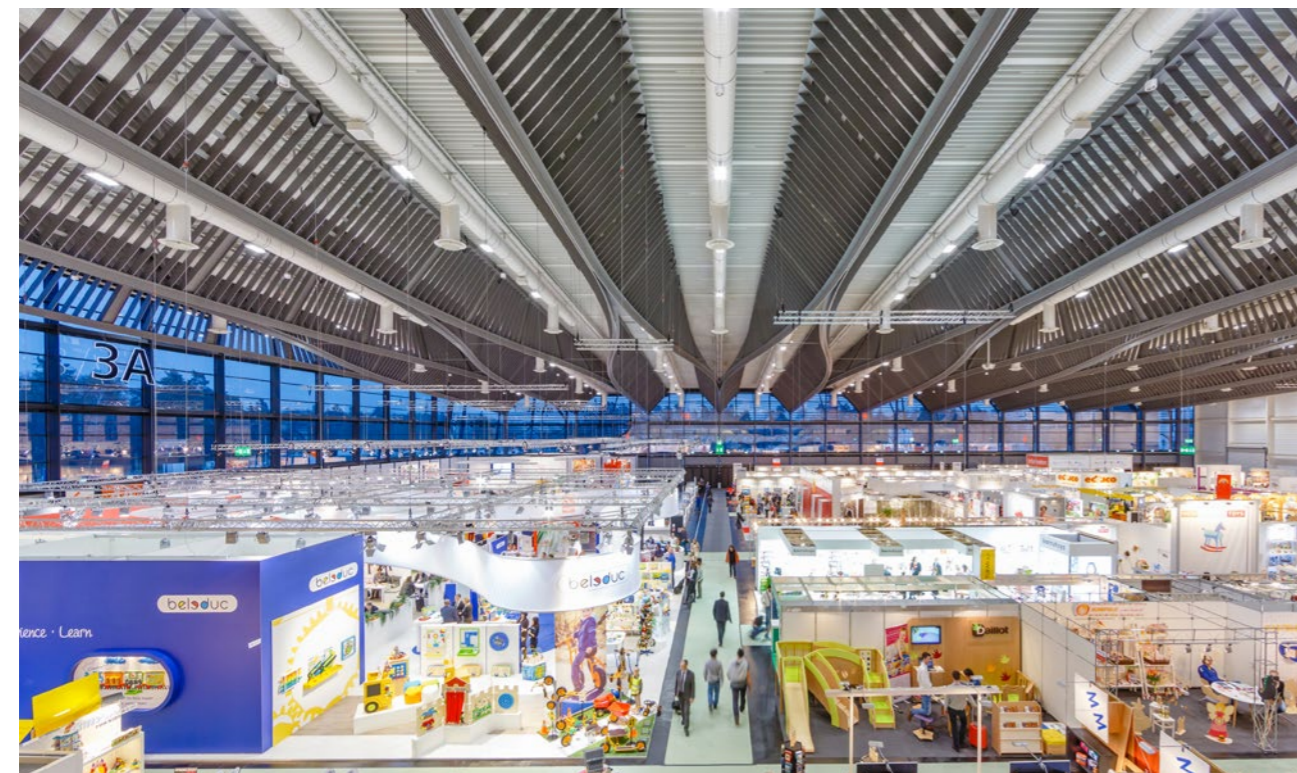
FIRETEX® Platinum has contributed to that, because it meets the requirements of the DGNB system. Moreover, as intumescent coatings, free from halogens and benzyl alcohol, the Platinum Technology meet the specifications and recommendations of international certification systems such as LEED v4 or BREEAM.

## SUSTAINABILITY

- Indoor application, as it is solvent-free
- Comply with DGNB, LEED and BREEAM requirements



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Exhibition hall 3a, interior view

# ADMINISTRATION BUILDING IN HERZOGENAURACH

The 12,000-tonne structure appears to float above the lawn, carried only by 19 elegant white columns.

The high requirements for fire protection were met with FIRETEX® Platinum-120. Almost 300 tonnes of the fire protection technology were used. The available evacuation time in the event of fire was significantly extended and the construction time shortened, because the schedule was ambitious and the structure had to be constructed in winter.



“Here we were able to display all the benefits of **FIRETEX® Platinum-120** the high safety, architectural design freedom and the time factor.”

**Ulrich Woiwod**  
Regional Sales Manager  
Sherwin-Williams  
Protective & Marine

# OUR COMPETENCE

In the development and production of our intumescent coatings, we focus on high-quality and sustainable solutions focused on the success of our customers and the safety of people, buildings and the environment. Every batch of our fire protection coatings is fire tested before use.

## WHEN EVERY SECOND COUNTS:

FIRETEX®, Unitherm® and Pyroplast® fire protective coating systems for

### STEEL



### WOOD



### CONCRETE



## CORROSION PROTECTION - PROVEN AND INNOVATIVE

In addition to fire protection, we are a trusted resource for the highest requirements in corrosion protection for many decades. With 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.

We serve a wide array of markets across our rapidly growing international distribution footprint, including

- Steel structures
- Tank protection and chemistry
- Hydraulic steel structures
- Power supply
- Infrastructure
- Wind power

Learn more about our solutions at [protectiveeu.sherwin-williams.com](http://protectiveeu.sherwin-williams.com)

# SHERWIN-WILLIAMS PROTECTIVE & MARINE

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# FIRETEX<sup>®</sup> PLATINUM TECHNOLOGY

## 2-PACK FIRE PROTECTIVE COATINGS

### 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 - including protective liquid and powder, fire protection and resinous flooring - excel at combating corrosion and help customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including Bridge & Highway, Energy, High Value Infrastructure, Manufacturing & Processing, Marine, Rail, Power and Water & Wastewater.

**SHERWIN-WILLIAMS**

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