

# PPG STEELGUARD™

Complete intumescent coatings range  
for superior cellulosic fire protection

We supply products that buy time, save lives, limit asset damage  
and contribute to a greener environment.



# Buying time, saving lives and minimizing asset damage

Specially formulated to protect civil and commercial infrastructure, including:

- Airport terminals
- Concert halls
- Factories
- Hospitals
- Hotels
- School buildings
- Shopping malls
- Sports stadia
- Train stations
- Warehouses
- Skyscrapers

Exposed steel structures feature prominently in the design of modern infrastructure such as skyscrapers, airport terminals, sports stadia, shopping malls and schools with aesthetically pleasing results. But if a fire strikes the potential for disaster in these high occupancy buildings is frightening.

Within minutes unprotected steel can reach the critical temperature that causes it to lose stability and collapse. The value of PPG STEELGUARD intumescent coatings is that they provide the vital extra time to help people escape and also allow fire fighters to save the building itself.

These highly protective intumescent coatings are designed to expand at high temperatures – from a very thin, lightweight film into a thick, foam-like layer that insulates the steel from cellulosic fire. It is this insulation that maintains the steel's stability, providing up to 120 minutes of fire protection.

#### Benefits:

- Excellent fire protection for steel structures
- High levels of corrosion protection against atmospheric conditions with suitable top coat
- Economical and versatile
- Smooth surface – excellent aesthetics
- Topcoats available in many colors to match building design
- Off-site versions available for in-shop application
- Waterborne coatings available for on-site application
- Engineering support
- Tested to various standards and certified to local requirements
- Independently approved
- Access to our global engineering support network



# Contributing to a greener and healthier working environment

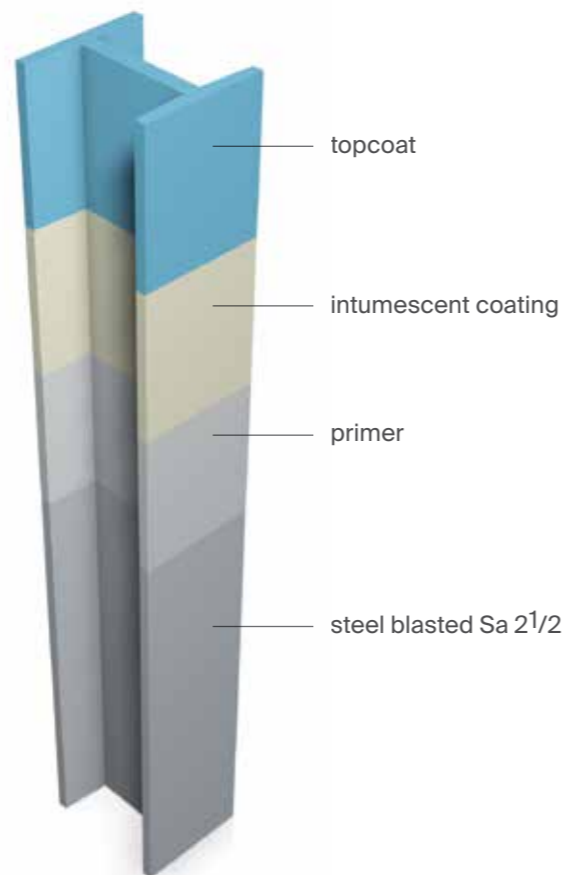


## Excellent corrosion protection

In combination with suitable PPG topcoats, PPG STEELGUARD intumescent coatings provide high levels of corrosion protection against a wide variety of atmospheric conditions.

## Beautifying steel structures

With PPG STEELGUARD coatings, you can also enhance the appearance of structural steel and utilize it as a contemporary, aesthetic feature. As well as providing a long-lasting smooth finish, these highly protective intumescent coatings can be topcoated in a wide range of colors to suit your requirements.



## Contributing to a greener and healthier working environment

Having worked closely with architects and designers around the world, we understand the pressures to specify 'greener' products. All PPG STEELGUARD coatings have been thoroughly tested and certified to the latest international standards and comply with the most stringent environmental regulations.

Our range also includes waterborne solutions specially formulated for on-site use. These coatings are low VOC and virtually odorless which means they can be applied in working areas – even while people are using the building – without omitting any harmful fumes.

## Consistent quality worldwide

PPG is certified to ISO 9001, recognized around the world as a sign of quality. Our intumescent coatings meet all major international standards in fire protection, with each product undergoing a rigorous, exhaustive testing process. In addition, every production batch is checked against its specifications – so you can be assured of consistent quality and accurate fire protection levels at all times.

## Global engineering support

Our engineers are experts in intumescent fire protection and are up to date with all relevant industry standards and fire ratings. They also have the engineering capability to support you in the early stages of development, guiding you through the specification process and providing ongoing support right through to project completion and beyond.



# Product selection guide

The PPG STEELGUARD range offers solutions that are compatible with various grades of fire protection, climatic exposure conditions and application techniques. The following tables will help you to find the most suitable coating to cover your project's requirements. All products are one-component intumescent coatings for off-site and on-site application.



## The PPG STEELGUARD range - Waterborne

Product	Minimum overcoating interval in hours (at 20°C)		Fire protection in minutes				Maximum DFT in one coat in µm	Exposure conditions (ISO 12944)				Independent approval
	With itself	With suitable top coat	30	60	90	120		C1	C2	C3	C4	
PPG STEELGUARD 581	16	18	•	•	•		700	•	•			BS476-20/21 and certified according to various national requirements
PPG STEELGUARD 585	16	18	•	•	•		700	•	•			BS476-20/21 and certified according to various national requirements
PPG STEELGUARD 601	16	18	•	•	•		700	•	•			EN 13381-8 and certified according to various national requirements
PPG STEELGUARD 651	16	18	•	•	•	•	700	•	•			BS476-20/21, EN 13381-8 and certified according to various national requirements

For detailed information please see the relevant Product Data Sheet and the PPG STEELGUARD Application Guidelines

## The PPG STEELGUARD range - Solvent-borne

Product	Minimum overcoating interval in hours (at 20°C)		Fire protection in minutes				Maximum DFT in one coat in µm	Exposure conditions (ISO 12944)				Independent approval
	With itself	With suitable top coat	30	60	90	120		C1	C2	C3	C4	
PPG STEELGUARD 549	6	48 <sup>2</sup>	•	•	•	•	1,500	•	•			BS476 20/21 and certified according to various national requirements
PPG STEELGUARD 550 <sup>1</sup>	6	48 <sup>2</sup>	•	•	•	•	1,500	•	•	•	•	BS476 20/21, UL263, GB14907 and certified according to various national requirements
PPG STEELGUARD 560 <sup>1</sup>	4	24 <sup>3</sup>	•	•	•	•	1,000	•	•	•	•	BS476 20/21 and certified according to various national requirements. Factory Mutual approved
PPG STEELGUARD 564 <sup>1</sup>	4	24 <sup>3</sup>	•	•	•	•	1,000	•	•	•	•	BS476-20/21, ENV13381-4 and certified according to various national requirements. Factory Mutual approved
PPG STEELGUARD 701 <sup>1</sup>	6	48 <sup>2</sup>	•	•	•		1,500	•	•	•	•	EN 13381-8, BS476 20/21, LPBC - Red Book listing for solid rods and certified according to various national requirements
PPG STEELGUARD 702 <sup>1</sup>	6	48 <sup>2</sup>	•	•	•		1,500	•	•	•	•	EN 13381-8 and certified according to various national requirements
PPG STEELGUARD 801 <sup>1</sup>	4	24 <sup>3</sup>	•	•	•		1,000	•	•	•	•	EN 13381-8, BS476 20/21, LPBC - Red Book listing for solid rods and certified according to various national requirements
PPG STEELGUARD 802 <sup>1</sup>	4	24 <sup>3</sup>	•	•	•		1,000	•	•	•	•	EN 13381-8 and certified according to various national requirements
PPG STEELGUARD 751 <sup>1</sup>	6	48 <sup>2</sup>	•	•	•	•	1,500	•	•	•	•	EN 13381-8, BS 476 20/21, AS 1530.4 and ISO 834.
PPG STEELGUARD 851 <sup>1</sup>	4	24 <sup>3</sup>	•	•	•	•	1,000	•	•	•	•	EN 13381-8, BS 476 20/21, AS 1530.4 and ISO 834. Factory Mutual approved

<sup>1</sup> Weather resistant up to 12 months without topcoat

<sup>2</sup> 60 minutes with PPG STEELGUARD 2458

<sup>3</sup> 30 minutes with PPG STEELGUARD 2458

For detailed information please see the relevant Product Data Sheet and the PPG STEELGUARD Application Guidelines.



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