



Dulux[®]

**PROTECTIVE
COATINGS**



Promat



CORROSION AND FIRE PROTECTION COATINGS



Corrosion and Fire Protection Coatings

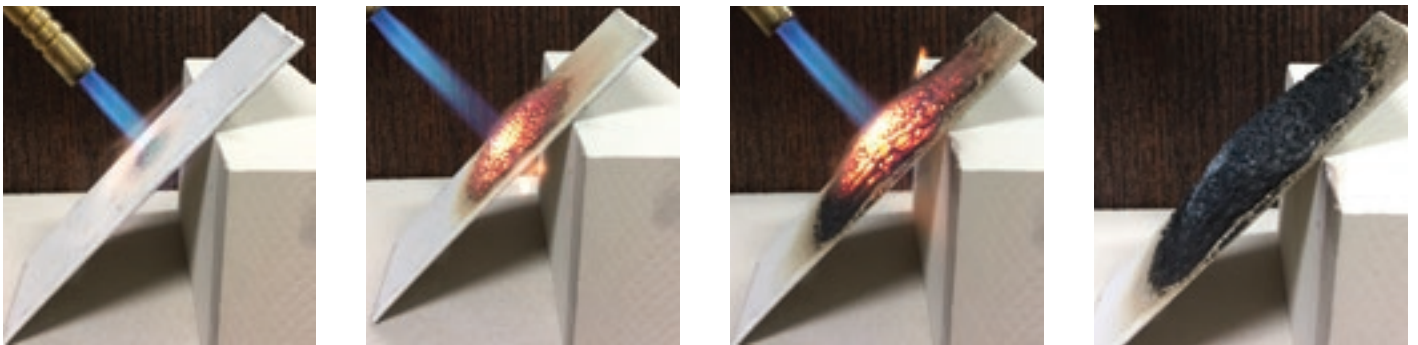
Dulux® Protective Coatings is a leading manufacturer and supplier of quality protective coatings, servicing the Australia-Pacific region for over 80 years. Dulux® Protective Coatings manufactures a comprehensive and diverse range of coatings that protects steel from corrosion in all types of environments.

Promat® is a global leader in passive fire protection solutions. Promat® has more than six decades of published test data relating to product performance. Promat® products are used for the construction of air-ducts, the encasement of structural steel profiles, walls, ceilings and the protection of electricity cables.

Promat® Cafco® SPRAYFILM WB3 is a water based intumescent coating consisting of polyvinyl acetate resins and fillers for the fire protection of structural steel. It is applied directly to the contour of primed I and H section columns, angles, channels and beams and both square and circular hollow sections, to provide fire protection for up to 120 minutes in accordance with Australia Standard AS 1530: Part 4: 2005.

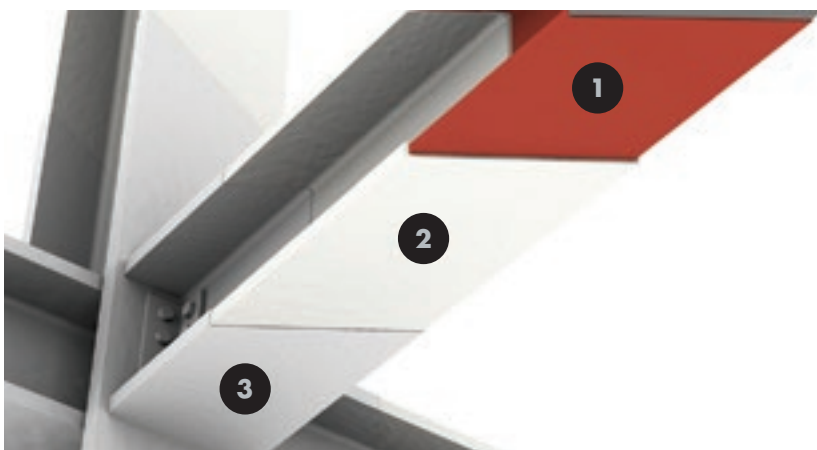
How do Intumescent Coatings work?

In a fire, a chemical reaction takes place causing the Promat® Cafco® SPRAYFILM WB3 to expand. This forms an insulating layer that slows the rate the coated steel is heated and prolongs structural failure of this steel.



Dulux® and Promat® Partnership

Together Dulux® and Promat® supply high quality coating systems that deliver corrosion protection, passive fire protection and an attractive decorative finish to structural steel.



1 High quality, anticorrosive Dulux® metal primer

2 Water based intumescent coating, Cafco® SPRAYFILM WB3 by Promat®

3 High performance Dulux® topcoat

Systems using solvent based corrosion protection

ENVIRONMENT		PREPARATION GUIDE	SYSTEM		DFT (µm)	CORROSION PROTECTION	FIRE RESISTANCE CLASS	
INTERIOR	STEEL NEW	Mild-Moderate (AS 2312, Cat C1-C2)	Abrasive blast clean AS1627.4, Class 2.5	1st Coat	Dulux® Duremax® GPE ZP	125 µm *	Excellent	120 minutes [§]
				2nd Coat	Cafco® SPRAYFILM WB3			
				3rd Coat	Dulux® Weathermax®	100 µm [▲]		
				Coat [▲]	HBR			
				1st Coat	Dulux® Durepon® P14	75 µm *	Very Good	120 minutes [§]
				2nd Coat	Cafco® SPRAYFILM WB3			
				3rd Coat	Dulux® Weathermax®	100 µm [▲]		
				Coat [▲]	HBR			

Introducing a low odour & low VOC[#] water based corrosion and fire protection systems

ENVIRONMENT		PREPARATION GUIDE	SYSTEM		DFT (µm)	CORROSION PROTECTION	FIRE RESISTANCE CLASS		
INTERIOR	STEEL NEW	Mild-Moderate (AS 2312, Cat C1-C2)	Abrasive blast clean AS1627.4, Class 2.5	1st Coat	Dulux® Duration® P23	75 µm *	Very Good	120 minutes [§]	
				2nd Coat	Cafco® SPRAYFILM WB3				
					3rd Coat	Dulux® Duration® X21	50 µm		
					4th Coat	Dulux® Duration® X21			
				1st Coat	Dulux® Duration® P23	75 µm *	Very Good	120 minutes [§]	
				2nd Coat	Cafco® SPRAYFILM WB3				
				3rd Coat	Dulux® Duration® T74	50 µm			
				4th Coat	Dulux® Duration® T74				
	GALVANISED [‡]	Mild-Moderate (AS 2312, Cat C1-C2)	Abrasive blast clean AS1627.4, Class 2.5	1st Coat	Dulux® Duration® P23	75 µm *	Excellent	120 minutes [§]	
				3rd Coat	Dulux® Duration® X21	50 µm			
				4th Coat	Dulux® Duration® X21				
				1st Coat	Dulux® Duration® P23	75 µm *	Excellent	120 minutes [§]	
				2nd Coat	Cafco® SPRAYFILM WB3				
				3rd Coat	Dulux® Duration® T74	50 µm			
				4th Coat	Dulux® Duration® T74				

§Tested according to AS 1530:PART 4 -2005, Methods for fire tests on building materials, components and structures - Fire resistance test of elements of construction

*The thickness of the intumescent coating Cafco® SPRAYFILM WB3 for a given period of fire resistance in a cellulosic type fire relates to the Hp/A ratio of a steel section. The Hp/A is the ratio of the heated perimeter of a steel section exposed to fire to the cross-sectional area of the same steel. Please refer to Cafco® SPRAYFILM WB3 datasheet for film build recommendations and contact your Dulux Protective Coatings representative.

‡Coatings over galvanised steel presents some challenges. If coating over galvanised steel please consult a Dulux Protective Coatings representative.

Compared to typical solvent based protective and intumescent coatings.

The Dulux® Weathermax® HBR must be applied in multiple coats at 50 µm per coat. Recoat intervals will be very dependent on conditions, please refer to a Dulux® Protective Coatings representative for further information.



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For more detailed product and safety information or
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www.duluxprotectivecoatings.com.au

Any advice, recommendation, information, assistance or service provided by Dulux in relation to goods manufactured by it or their use and application is given in good faith and is believed by Dulux to be appropriate and reliable. Please refer to the specific product datasheet for detailed information. This is a guide only and not to be used as a specification. Your specific project needs must be discussed with a Dulux Protective Coatings Consultant.

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