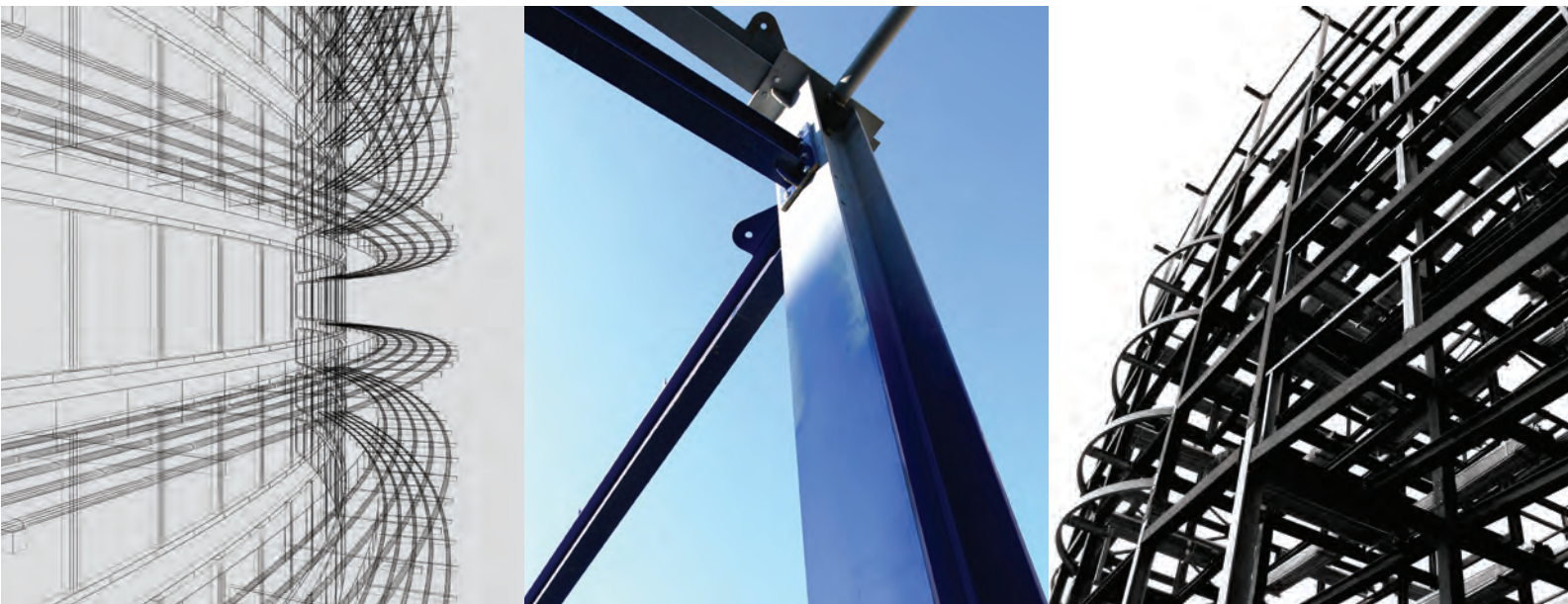




BROSTEEL *ULTRA 60*



Provides 30 minutes fire protection in only one coat,
60 minutes can be achieved in two coats.

Fully fire tested BS476:Part 20/21:1987.

EPA Compliant (1998).



APPROVED PRODUCT
CF 624

FIRE PROTECTION for STRUCTURAL STEEL

BROSTEEL ULTRA 60

INTUMESCENT COATING FOR STRUCTURAL STEEL

Brosteel Ultra 60 is a thin-film **waterborne** intumescent coating designed to provide 30 and 60 minutes fire resistance on standard structural steel members in internal environments. Available in 5 and 10 litre containers.

Brosteel Ultra 60 is white, with a creamy consistency. If a finish is required, either for decoration or protection against moisture, **a range of Flameguard Ultra finishes is available in ultra gloss and eggshell finishes.**

Brosteel Ultra 60 is a specialist product that is easy to apply by conventional methods. All cans come complete with full instructions and coverage rates.

Coverage & Application Rates

Brosteel Ultra 60 is suitable for all types of structural steel, subject to the following minimum steel thicknesses:

Universal Beams - flange thickness 7.6mm;

Universal Columns - flange thickness 6.8mm;

Hollow Sections (30 minutes) - wall thickness 4.0mm;

Hollow Section Square & Rectangular (60 minutes) - wall thickness 6.0mm;

Hollow Section Circular (60 minutes) - wall thickness 8.0mm.

For thinner / lighter members please consult Tor Coatings.

Loadings based on steel section factor (Hp/A) of 300 m⁻¹.

Loadings based on steel section factor (Hp/A) of 300m⁻¹ and a critical temperature of 620°C for horizontal I-section beams supporting a concrete slab, 550°C for all other I-sections and 520°C for all Hollow sections. The table below gives the recommended coverage rates in m²/litre and wet and dry film thicknesses (WFT & DFT).

Exposure	Horizontal Beams			Vertical Columns		
	m ² /litre	WFT	DFT	m ² /litre	WFT	DFT
	30 Minutes Fire Resistance					
4-Sided	2.3	0.42	0.30	2.3	0.42	0.30
3-Sided	3.0	0.32	0.23	2.3	0.42	0.30
	60 Minutes Fire Resistance					
4-Sided	0.5	1.78	1.28	0.5	1.78	1.28
3-Sided	1.2	0.78	0.56	0.5	1.78	1.28
	Hollow Sections					
	Square & Rectangular			Circular		
	30 Minutes Fire Resistance					
4-Sided	1.2	0.83	0.63	0.4	2.33	1.68
	60 Minutes Fire Resistance					
4-Sided	0.4	2.33	1.68	0.4	2.33	1.68

Surface Preparation

Steelwork to be coated with Brosteel Ultra 60 must be primed with an Anti-corrosion Primer suited to the intended environment of the building and applied to the Manufacturer's Specification with the exceptions that the Dry Film Thickness does not exceed 100 microns and that Thermoplastic, Bitumen or Chlorinated Rubber coatings are not used. If the steel has been galvanised or coated with a zinc-rich primer a suitable tie-coat should be applied.

Consult Tor Coatings for guidance.

Application Methods

Brosteel Ultra 60 can be applied by brush, roller or spray, please see data sheet for more information.

Application Conditions

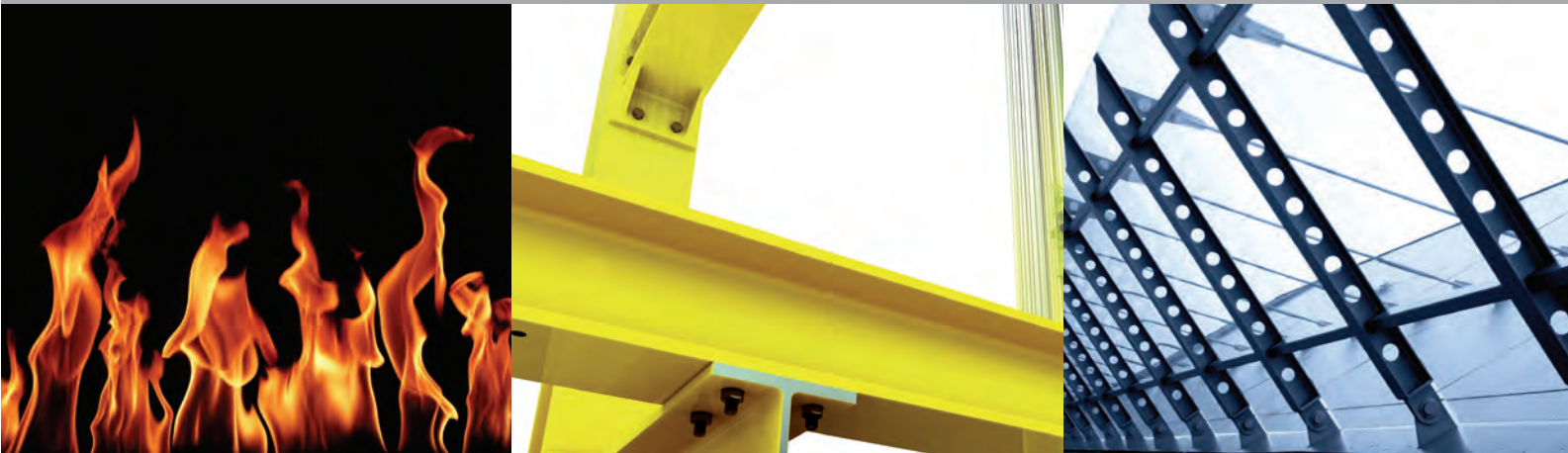
Brosteel Ultra 60 should only be applied where the surface and ambient temperature is 5°C or above, and must be maintained during the application and drying periods. The relative humidity should be below 80% throughout the application and drying periods.

General Safety

We would advise that the normal handling and ventilation precautions for solvent/waterborne paints should be observed during the application of Brosteel Ultra 60. Please refer to Health & Safety data sheets prior to commencing work.

BOLLOM FIRE PROTECTION

INTUMESCENT COATINGS FOR STRUCTURAL STEEL



Simplicity - Simplified specification and simple application procedures.

Cost effective - Brosteel Ultra 60 is a specialist water-based product that a competent contractor will find easy to apply. Application is by brush, roller or airless spray.

Fully Tested - All Bollom intumescent coatings for structural steel have been fully fire tested to BS476:Part 20/21:1987.

The Bollom brand has been associated with fire protection since its conceptual stage in the early 1970s when the company (then known as J.W. Bollom & Co) acquired a very early intumescent for structural steel from France. It then went on to manufacture the first textured, solvent based intumescent.

Since then the range has grown into one of the most comprehensive on the market including decorative coatings not only for structural steel but also internal walls and ceilings, external and internal wood and wood veneer. All of Bollom's Intumescent Coatings for Structural Steel have been fully fire tested to BS476:Part 20/21:1987.

There is a full advice and specification service with on-site technical support if required.

Tor Coatings has ISO 9001 accreditation and is a member of the British Coatings Federation.



For technical advice or a list of stockists, contact:

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An **RPM** Company

