



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 21 : 1987.

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



Tor Coatings Ltd.,  
Unit 21 White Rose Way, Follingsby Park, Gateshead, Tyne & Wear. NE10 8YX.  
Tel: +44 (0)191 410 6611 Fax: +44 (0)191 492 0125

For technical advice please tel: +44 (0)191 411 3166 or e-mail: [techsupport@tor-coatings.com](mailto:techsupport@tor-coatings.com)

Web: [www.bollomfire.co.uk](http://www.bollomfire.co.uk)



# BROSTEEL ULTRA 60



- Provides 30 minute fire protection in only one coat, 60 minutes can be achieved in two coats.
- Fully Fire Tested BS476 Part 21 : 1987.
- Suitable for C1 and C2 environments.
- Certificates of Conformance and Installation are supplied with every purchase.

**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 2.5, 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 Beam	- flange thickness 7.6mm
Universal Column	- flange thickness 6.8mm
Hollow Sections (30 minutes)	- wall thickness 3.6mm
Hollow Sections (60 minutes) 4 sided beam or column	- wall thickness 5.0mm
Hollow Section (60 minutes) 3 sided beam	- wall thickness 8.0mm

**Loadings based on steel section factor (Hp/A) of 300M<sup>-1</sup> for UB & UC's and 205M<sup>-1</sup> for Hollow Sections and 130m<sup>-1</sup> for Hollow Beam Sections** - Loadings based on 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 m<sup>2</sup>/litre and wet and dry film thicknesses (WFT & DFT).

EXPOSURE	HORIZONTAL BEAMS			VERTICAL COLUMNS		
	30 Minutes Fire Resistance			30 Minutes Fire Resistance		
	m <sup>2</sup> /L	WFT	DFT	m <sup>2</sup> /L	WFT	DFT
4-Sided	2.3	0.41	0.28	2.3	0.41	0.28
3-Sided	3.0	0.34	0.24	2.3	0.41	0.28
	60 Minutes Fire Resistance			60 Minutes Fire Resistance		
	m <sup>2</sup> /L	WFT	DFT	m <sup>2</sup> /L	WFT	DFT
4-Sided	1.1	0.90	0.63	1.1	0.90	0.63
3-Sided	1.4	0.70	0.49	1.1	0.90	0.63
	Hollow Sections: Square, Rectangular & Circular			Hollow Sections: Square, Rectangular & Circular		
	30 Minutes Fire Resistance			60 Minutes Fire Resistance*		
	m <sup>2</sup> /L	WFT	DFT	m <sup>2</sup> /L	WFT	DFT
All Sides	1.9	0.52	0.37	0.55	1.83	1.28

**Maximum Wet Film Thickness per coat:** Brush/roller: 0.61mm. Airless spray: 1.0mm.

**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 Technical Support 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 to dry, protected structural steel, 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.

*\*Limited to Hp/A - 205*

# BOLLOM FIRE PROTECTION

## INTUMESCENT COATINGS FOR STRUCTURAL STEEL



**Simplicity** - Simplified specification & 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 Bolloom intumescent coatings for structural steel have been fully fire tested to BS476 Part 21 : 1987.