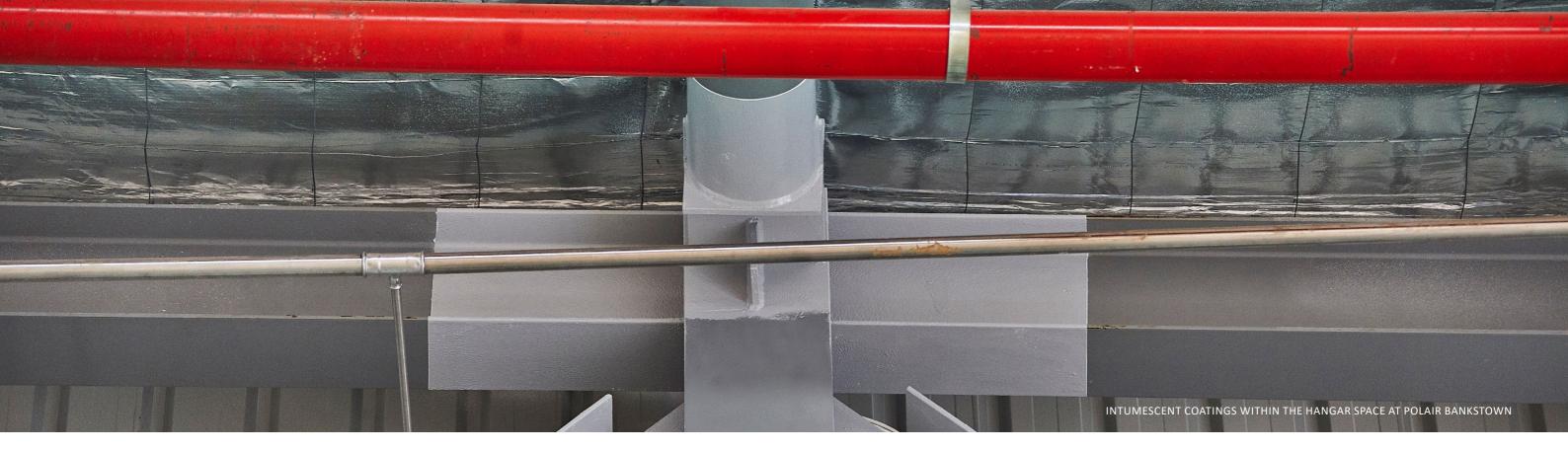


# The Importance of Intumescent Coatings



### What are Intumescent Coatings?

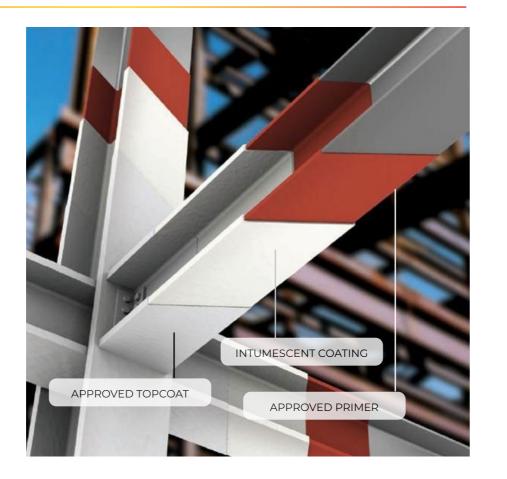
Intumescent Coatings are used in construction as a passive fire resistance measure, to protect and preserve the stability and structure of the building in the event of a fire.

Intumescent Coating systems generally have 3 components.

- A primer
- The Intumescent Coating
- A sealer / topcoat

Intumescent Coatings offer a protective layer which swells under heat (with or without the application of water) to many times its' original thickness in a controlled manner and forms an insulation layer on the surface.

This protective insulating layer over the substrate helps reduce the risk of a possible structural collapse of the building, which can occur if load bearing steel reaches a critical state.



# The Importance of Intumescent Coatings

Intumescent Coatings are commonly applied to the steel elements of a building, such as beams and columns to preserve the structure's stability and prevent its collapse in the event of a fire.

This coating can provide protection up to 120 minutes, providing time for the safe evacuation of the building's occupants and for fire fighters to save the building.

This product is a good solution to achieve an attractive surface finish and is typically used to easily cover complex shapes, giving a finish that can be integrated into the architectural fabric of a building. More and more architects are specifying Intumescent Coatings for fire protection and as an architectural design feature.

Intumescent Coatings for structural steel are a superior, long lasting and environmentally friendly method of providing fire rating. They are cost effective and can be rapidly applied in situ onsite whilst other trades are completing their work.

The application of Intumescent Coatings can be seamlessly incorporated into a construction program leading to efficient integration of activities on site.





### Why use Bowsers?

Bowsers is a specialist applicator of Intumescent Coatings and has been working as a passive fire rating contractor for over 50 years. Bowsers has highly skilled applicators and carries out works with a high level of supervision whilst coordinating works with other trades on site.

Most importantly, Bowsers provides certification for the application of Intumescent Coating products with fire ratings from 30 to 120 mins.

Bowsers has completed over 70 Intumescent Coatings projects. Our lengthy project portfolio and extensive experience makes us a leader in the application of Intumescent Coatings. There are a variety of Intumescent Coating types with different properties and application methods. Bowsers' experienced team can recommend the best solution for your situation.

Bowsers is licenced with the Fire Protection Accreditation Scheme (FPAS) and is an accredited applicator of a range of approved products to the relevant Australian Standards. We are also independently accredited by Greencap Cm3. BOWSERS IS AN ACCREDITED APPLICATOR FOR A RANGE OF FIRE RATED PRODUCTS USED IN THE INDUSTRY.

### **Bowsers' Services**

Bowsers offers comprehensive services and delivery of Passive Fire Protection including Intumescent Coatings across various sectors.

Its offering includes:

- Intumescent Coatings
- Audits
- Compliance Reports
- Rectification of existing passive fire protection systems
- Installation of new passive
  fire protection systems
- Certification of installed systems
- Technical advice

I have over 30 years' experience in the paint and coatings industry, one of the keys to success is to work alongside clients that are experts in their field. The Bowsers team, with their experience and knowledge lead the way in successful project completion. I have assisted Bowsers on multiple Intumescent projects. Their attention to detail with following specification, along with quality assurance and record keeping is second to none.

Darren Brewer, Dulux Protective Coatings



# Case Study: Advanced Manufacturing Readiness Facility

#### **SECTOR:**

Building (Commercial)

**CLIENT:** Taylor Construction

### **PROJECT COMPLETION:** August 2024

**VALUE:** \$406,000

ADDRESS: Bringelly, NSW

#### **PROJECT OVERVIEW:**

The future of manufacturing in Western Sydney has reached an exciting milestone with the completion of Bradfield City Centre's First Building. This world-class building will house Stage 1 of the Advanced Manufacturing Readiness Facility (AMRF), offering support to help businesses grow faster, reduce risks, and compete globally, while strengthening the NSW economy.

### SERVICES OFFERED:

Bowsers were engaged by Taylor Construction for the application of Intumescent Coatings on 1000sqm of structural steel.



#### **PROJECT CHALLENGES:**

As a new construction project, it operated under a tight schedule, necessitating efficient work from Bowsers to keep the program on track. Notably, the Bowsers' team set a company record for the volume of intumescent paint sprayed in a single shift. Additionally, they faced challenges from inclement weather. This project required external application before the glass installation, and the decorative timber façade added complexity to the process.

### SOLUTIONS OFFERED:

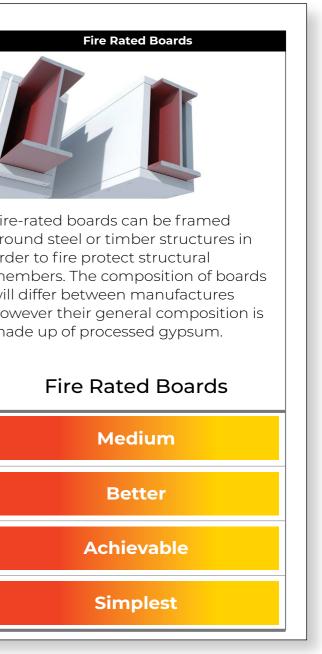
Bowsers addressed these challenges through meticulous planning and site preparation, utilising specialised application equipment. This approach ensured compliance with Australian Standards and resulted in a flawless finish that integrated seamlessly into the client's construction timeline.

#### **OVERALL OUTCOME:**

This project is a testament to Bowsers' professionalism and project management excellence, building on their successful collaboration with the client in previous projects. With a proven track record of over a hundred Intumescent Coatings projects, Bowsers' commitment to quality and attention to detail solidifies its position as a leading applicator of Intumescent Coatings.



Ease of Application	Specialised (wet trade)	Specialised (wet trade)	
Weather Resistant	Achievable	Achievable	
Final Finish	Good	Best	
Cost of Application	Low	High	
	Wet mix Spray-applied Fire Resistive Material (SFRM) has been used in structural steel fire protection for decades. It is a low cost option and is generally used for internal environments as it is susceptible to damage by water ingress.Fire Sprays	Intumescent is the newest fire protection methodology to come onto the market. Unlike boards and vermiculite, intumescent is a reactive material which expands to insulate structural steel in a fire event. Every intumescent has different material properties and therefore have different required thicknesses and expansion behaviour.	Fire arco orco will how ma
Passive Fire Protection Options for Structural Steel	Fire Sprays	Intumescent Coatings	







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