BOWSERS®
FIRE PROTECTION EXPERTS
SINCE 1968
50 + YEARS

The Importance of Intumescent Coatings

INTUMESCENT COATINGS WITHIN THE HANGAR SPACE AT POLAIR BANKSTOWN

What are Intumescent Coatings?

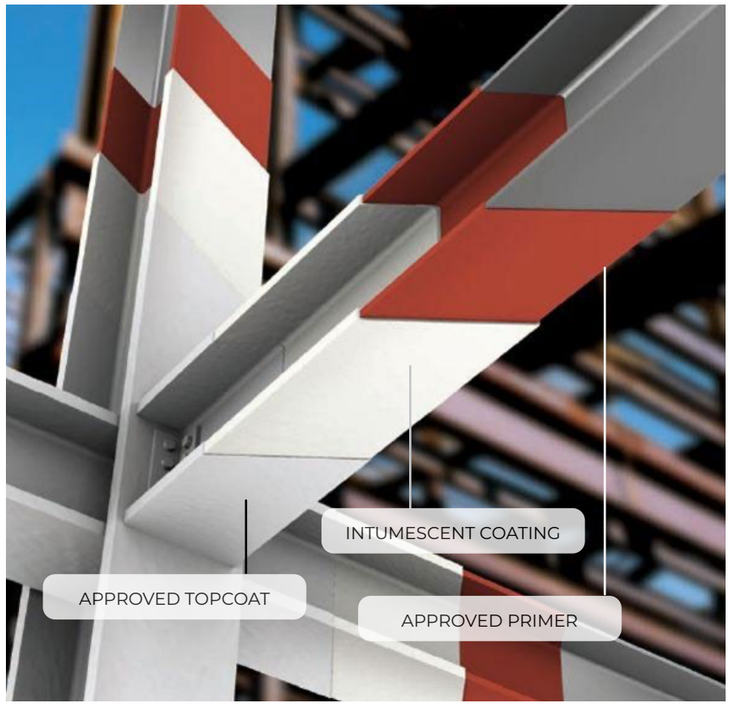
Intumescent Coatings are used in construction as a passive fire resistance measure, to protect and preserve the stability and structure of the building in the event of a fire.

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.



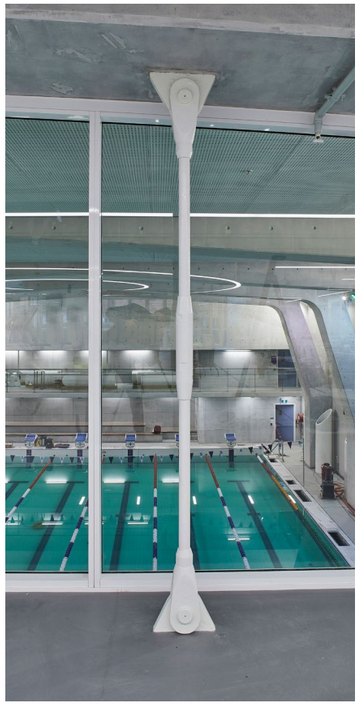
The Importance of Intumescent Coatings

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.



BOWSERS HEAD OFFICE

INTUMESCENT COATINGS APPLIED TO STRUCTURAL STEEL WITHIN OAKHILL COLLEGE

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: Oakhill College Intumescent Coatings

SECTOR:
Building (Education)

CLIENT:
FDC Construction

PROJECT COMPLETION:
October 2022

VALUE:
$112,255

ADDRESS:
423 / 513 Old Northern Road, Castle Hill

PROJECT OVERVIEW:

As one of the biggest high schools in The Hills Shire, Oakhill College caters to over 1700 students and commenced a major upgrade starting back in 2019. Bowsers was engaged to fire rate the structural steel supporting a central bespoke glass lift within the school's newly constructed building block.

SERVICES OFFERED:

Bowsers applied Intumescent Coatings to the structural steel ensuring a superior finish.

PROJECT CHALLENGES:

As the school wanted the lift structure to be a hero piece, showcasing the mechanics to its students, the structural steel exposed behind protective glass needed to be aesthetically pleasing. Given the sensitivities of a live and operating school environment, it was critical Bowsers' applicators, and the materials handling did not impede the daily activities of the students and staff.

SOLUTIONS OFFERED:

Extra effort went into preplanning and ensuring accurate and precise product application, resulting in a premium, commercial grade finish. Bowsers' experience in a variety of different Intumescent coating options ensured the final finish was unrivaled. With their years of experience, Bowsers has accrued a vast array of knowledge across many intumescent coating products, aiding in a superior application process and premium finish. By working closely with the client and adopting strong communication, the school incurred minimal disruption.

OVERALL OUTCOME:

Bowsers' extensive experience with sensitive education facilities which needed to remain operational resulted in the successful fire rating of the structural steel. The client was thrilled by the quality high-grade finish, which accentuates the overall design.

BOWSERS®
FIRE PROTECTION EXPERTS
SINCE 1968
50 + YEARS

BOWSERS®
FIRE PROTECTION EXPERTS
SINCE 1968
50 + YEARS

Unit 5, 19 McCauley Street
Matraville NSW 2036

T 02 9669 2283
E bowsers@bowsers.com.au
W bowsers.com.au

FPA AUSTRALIA GOLD MEMBER Fire Protection Association Australia

cm3 GREENCAP ONLINE RISK SOLUTIONS

Master Builders Association New South Wales

FPAS Fire Protection Accreditation Scheme Recognised Business