


# Interchar 212

## Intumescent coating providing up to three hours fire resistance

Offsite application of tough Interchar® 212 means your steel can be transported to site and erected while being fully fire protected. With cellulosic and hydrocarbon approvals, Interchar® 212 can also decrease your scheduling time.

With our extensive testing and approvals, International® is the name you can trust for quality fire protection.

- Carries CE Marking 
- 100% volume solids means extremely low VOCs which contributes to the structure's green rating
- Independently tested for explosion and impact resistance
- Approvals to a range of fire standards
- Tested for surface spread of flame, smoke development and toxicity levels
- Compatible with a range of topcoats and colors which allows maximum expression
- Excellent damage resistance makes for a robust off site alternative to on site application
- Applicator friendly: low odor, high build, rapid cure
- Hydrocarbon fire resistance (UL1709 Design XR627)
- Excellent resistance to water absorption



# Damage resistant fire and corrosion protection for the most demanding projects

Interchar® 212 is a robust, durable and long lasting epoxy intumescent to deliver a best in class fire protection solution. Specifically engineered for cellulosic fires, Interchar® 212 combines a tough, anti-corrosive backbone, with excellent mechanical and physical properties, all backed up by rigorous third party testing and approvals.

## Offsite application

Designed to be applied away from the construction site, Interchar® 212 removes the concern about installation of fire proofing at the job site. This provides the following benefits:

- Rigorous quality control provided by specialist off site application facilities - ensuring that the fire proofing is applied as per the project specification
- Reduced trades on site - reduced on site complexity, disruption and lower on site H&S concerns
- Pre-fire proofed steel - improved productivity leading to reduced construction schedules
- Excellent mechanical properties including abrasion resistance with minimal damage in transit to site
- Architecturally exposed steelwork can be top coated away from site, directly over the fire proofing, further reducing on site complexity and improving overall quality

After building erection, Interchar® 212 can be used on-site to complete the process of fire protecting the connections.

## Product Characteristics

The table below provides an overview of some of the detailed mechanical property testing that has been undertaken:-

TEST TYPE	RESULTS
Hardness (ASTM D2240)	>65 Shore D
Adhesion (ISO4624)	>1160 psi (>8 MPa)
Compressive Strength (ASTM D695)	>1450 psi (>10 MPa)
Explosion (4 bar over pressure test)	No detachment, no cracking
Tensile Strength (ASTM D638)	>1450 psi (>10 MPa)

## One Supplier, One Solution

Interchar® 212 provides both fire protection and corrosion protection without the requirement of topcoats.

However, project construction timeframes, and client aesthetic requirements, may require the use of both a primer and colored topcoats. You can have confidence in International® because we test complete systems and can offer a single point supply and support.

Further details and test results are available from International®.

This product has been developed in a controlled ISO 9001 Quality Approved laboratory environment. It has been tested in a UKAS approved laboratory and is manufactured to ISO 9002. International® makes no representation that the exhibited published test results, or any other tests, accurately represent results actually found in all field environments.

As application, environmental and design factors can vary significantly, due care should be exercised in the selection, verification of performance and use of the coating(s).

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Yas Hotel, Abu Dhabi, UAE

## Approvals

APPROVAL	LEAD COUNTRY
BS 476 Parts 20-21	UK
ENV 13381:4	Mainland Europe
UL 263 (exterior listed) UL 1709 Design XR627 ASTM E-119	USA
AS 1530.4	Australia
KS F2257	Korea

Interchar® 212 is undergoing continual testing and approvals. Please contact International® for an up to date listing.

It is important to know that the products supplied and installed will provide the same level of performance as those tested:

- Third party certified by Certifire
- Included in the UL Follow Up Service scheme
- This product carries a CE Marking which is mandatory for many products placed on the market in the European Economic Area 

Interchar® 212 has been tested to the ASFP protocol to account for beams with web openings. This permits optimized dry film thicknesses to be specified for beams with circular, rectangular and castellated openings.

