



Interchar® 212

epoxy based intumescent fire protection

Delivering
Solutions through
Global Experience

- Engineered to provide cost effective protection for structural steel in cellulosic fires
- Approvals to a range of fire standards (see overleaf)
- Effective fire protection for up to 3 hours
- Based on the Chartek product range, with over 30 years of fire protection experience
- Inherent anti-corrosive performance
- Environmentally sensitive - Solvent free formulation
- Good aesthetic finish, ideal for architectural steelwork
- Topcoating allows for a full spectrum of colours
- Excellent damage resistance provides for a robust off site alternative to application on site
- Application friendly: low odour, high build, rapid cure
- Independently tested for explosion and impact resistance
- Hydrocarbon fire resistance (UL1709 Design XR627)



Chartek® Pedigree

The Chartek product line has been providing fire protection to the offshore oil and gas industries for over 30 years. Chartek products have provided robust, durable, long lasting fire protection solutions in some of the world's most demanding environments.



Interchar 212 builds on these attributes to deliver a tailored fire protection solution for the onshore cellulosic market. By utilising the same tough anti corrosive backbone of the Chartek technology in combination with specific fire engineering for onshore cellulosic fires, it has been possible to bring to market a unique product.

Fire Type	Typical Structures	Fire Protection
Hydrocarbon	Oil and Gas Industry. Chemical Processing	Chartek
Cellulosic	Commercial Buildings & Infrastructure	Interchar

One Supplier, One Solution

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

Typical specification:

Surface preparation - abrasive blast
Interchar 212 - epoxy fire proofing

Project construction timeframes, and client aesthetic requirements, may require the use of both a primer and a topcoat. In these instances International Protective Coatings can offer a complete package, taking single point responsibility for both fire protection and coatings.

Typical specification:

Surface preparation - abrasive blast
Intercure 200 - anti-corrosive primer
Interchar 212 - epoxy fire proofing
Interfine 878 - acrylic polysiloxane finish

Product Characteristics

The table below provides an overview of some of the detailed testing that has been undertaken on the product.

Property	Test Type	Results	Observations
Mechanical Properties	Hardness (ASTM D2240) Adhesion (ASTM 4624) Compressive Strength (ASTM D695) Explosion (4 bar over pressure test) Tensile Strength (ASTM D638)	>55 Shore D >8MPa (>1160psi) >10MPa (>1450psi) No detachment, no cracking >10MPa (>1450psi)	Resistant to handling damage during construction. Provides for long term protection, with no risk of detachment or premature breakdown.
Chemical Resistance (ISO 2812-1)	Ethanol (3 months) 5% Potassium Hydroxide (3 months) 5% Sulphuric Acid (3 months) Unleaded Gasoline (3 months) 10% Ammonium Solution (3 months)	No defects No defects No defects No defects No defects	A wide range of resistance demonstrates performance against materials that it could come into accidental contact with.
Water uptake (ISO 2812-2)	Immersed in sea water (6 months)	<1% weight uptake	Low water uptake on immersion demonstrates the excellent weatherability, and corrosion resistance of Interchar 212.

Further details and test results are available from International Protective Coatings.

Approvals

Approval *	Lead Country
BS 476 parts 20-22:1987	UK
GOST	Russia
UL 263 (exterior listed)** UL 1709 Design XR627	USA
AS1530.4 (1997)	Australia
GB14907	China

* Interchar 212 is undergoing continual testing and approvals.

Please contact International Protective Coatings for an up to date listing.

** Exterior listing requires Interthane 990 topcoat



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

- Approved to Certifire
- Approved to UL Follow Up

Offsite application

Designed to be applied away from the construction site Interchar 212 removes the need to be concerned 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
- 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 onsite to complete the process of fire protecting the connections.

www.interchar.com
protectivecoatings@internationalpaint.com

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