

## Acrylic Intumescent

### PRODUCT DESCRIPTION

A one component, solvent borne, high solids intumescent coating independently tested at accredited laboratories to assess fire protection performance on structural steelwork in accordance with a range of standards, providing up to 2 hours protection.

### INTENDED USES

To provide fire protection on 'I' sections beams, columns and hollow sections. Due to its fast drying properties, and rapid recoatability, Interchar 963 is suitable for application in the steel fabrication shop and can be used over a wide range of approved priming systems.

### PRACTICAL INFORMATION FOR INTERCHAR 963

<b>Color</b>	White, Gray
<b>Gloss Level</b>	Matte
<b>Volume Solids</b>	75% ± 2% (measured according to ISO 3233 and ICF Method)
<b>Typical Thickness</b>	14-30 mils (350-750 microns) dry equivalent to 18.7-40 mils (467-1000 microns) wet, achievable in one coat.
<b>Theoretical Coverage</b>	40 sq.ft/US gallon at 30 mils d.f.t and stated volume solids 1 m <sup>2</sup> /liter at 750 microns d.f.t and stated volume solids
<b>Practical Coverage</b>	Allow appropriate loss factors
<b>Method of Application</b>	Airless Spray, Brush
<b>Drying Time</b>	

Overcoating interval with self

Temperature	Touch Dry	Hard Dry	Minimum	Maximum
50°F (10°C)	60 minutes	24 hours	8 hours <sup>2</sup>	Extended <sup>1</sup>
59°F (15°C)	45 minutes	20 hours	6 hours <sup>2</sup>	Extended <sup>1</sup>
77°F (25°C)	30 minutes	16 hours	4 hours <sup>2</sup>	Extended <sup>1</sup>

<sup>1</sup> See International Protective Coatings Definitions & Abbreviations

<sup>2</sup> Sealer coat should be applied as soon as possible after completion of the final coat of Interchar 963 (minimum 2-4 hours for Intersheen 579; 24 hours for Interthane 870 or Interthane 990). However, d.f.t. must be checked to ensure that specified thickness has been achieved before any sealer coat is applied.

All drying time data has been quoted at the typical thickness of 30 mils (750 microns) d.f.t.

For temperatures at 77°F (25°C) and above, a tropical grade is available. See Product Characteristics.

### REGULATORY DATA

<b>Flash Point (Typical)</b>	5°C (41°F)	
<b>Product Weight</b>	11.4 lb/gal (1.37 kg/l)	
<b>VOC</b>	2.71 lb/gal (325 g/lt)	EPA Method 24
	237 g/kg	EU Solvent Emissions Directive (Council Directive 1999/13/EC)

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### SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application, all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

#### Primed Surfaces

Interchar 963 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be of normal appearance, dry and free from all contamination, and Interchar 963 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. Sa2½ (ISO 8501-1:2007) or SSPC SP6, Abrasive Blasting, or SSPC SP11, Power Tool Cleaning) and patch primed prior to the application of Interchar 963.

#### Zinc Primed Surfaces

Interchar 963 can be applied over approved epoxy metallic zinc primers. Ensure that the primed surface is clean, dry and free from contamination and zinc salts, prior to application of the Interchar 963. Ensure zinc primers are fully cured before overcoating. The use of a tie coat, typically Intergard 269 or Intergard 276, is recommended to prevent accumulation of zinc salts.

### APPLICATION

<b>Mixing</b>	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.	
<b>Mix Ratio</b>	Not applicable	
<b>Airless Spray</b>	Recommended	Tip Range 19-23 thou (0.48-0.59 mm) Total output fluid pressure at spray tip not less than 3498 psi (246 kg/cm <sup>2</sup> )
<b>Air Spray (Pressure Pot)</b>	Not recommended	
<b>Brush</b>	Suitable	Recommended for small areas and repairs, multiple coats will be necessary to achieve the required dry film thickness.
<b>Roller</b>	Not recommended	
<b>Thinner</b>	Not normally required	
<b>Cleaner</b>	International GTA007	
<b>Work Stoppages</b>	Thoroughly flush all equipment with International GTA007. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage.	
<b>Clean Up</b>	Clean all equipment immediately after use with International GTA007. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays.	
	All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.	

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### PRODUCT CHARACTERISTICS

The detailed Interchar 963 Application Guidelines should be consulted prior to use.

Required film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved.

Low or high temperatures may require specific application techniques to achieve maximum film build. Over-application of Interchar 963 will extend both the minimum overcoating periods and handling times.

When applying Interchar 963 by brush, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

For optimum application and drying characteristics, the air and substrate temperature should be greater than 41°F (5°C) and relative humidity less than 85%. Surface temperature must always be a minimum of 5°F (3°C) above dew point.

When applying Interchar 963 in confined spaces, ensure adequate ventilation.

The finished appearance of Interchar 963 is dependent on application method. For visible areas spray application is preferred. High decorative finishes may require additional preparation before application of sealer coat. The final surface finish is dependent on application method. Avoid using a mixture of application methods whenever possible.

Interchar 963 (whether sealed or not) should be protected from pooling or running water. Interchar 963 is not designed for frequent water immersion/soaking.

A version with greater water resistance is available which allows for Interchar 963 to remain unsealed for up to 6 months exterior exposure (in ISO 12944 C2) provided there is no pooled/heavy running water, or frequent high humidity/condensation.

### Tropical Grade

For improved product workability in warmer climates, a tropical grade version is available. Interchar 963 Tropical Grade has the following characteristics. Volume Solids 73%±2% ; VOC 350g/l, Flash Point 79°F (26°C).

### **Drying Times:**

Temperature	Touch Dry	Hard Dry	Overcoating Interval with Self	
			Minimum	Maximum
77°F (25°C)	2 hours	36 hours	16 hours <sup>2</sup>	Extended <sup>1</sup>
104°F (40°C)	1 hour	24 hours	12 hours <sup>2</sup>	Extended <sup>1</sup>

<sup>1</sup> See International Protective Coatings Definitions and Abbreviations.

<sup>2</sup> Sealer coat should be applied as soon as possible after completion of the final coat of Interchar 963 (minimum 2-4 hours for Intersheen 579; 24 hours for Interthane and Interfine sealers). However, d.f.t. must be checked to ensure that specified thickness has been achieved before any sealer coat is applied.

### SYSTEMS COMPATIBILITY

Interchar 963 has been tested as part of a coating system for use in fire situations over a wide range of approved priming systems.

The following primers are approved for use with Interchar 963:

Intercure 200	Intercure 200HS
Intergard 251	Intergard 269
Interplate 398	Interprime 306
Interseal 670HS	Interseal 1052
Interzinc 42	Interzinc 52

The following topcoats are approved for use with Interchar 963:

Intersheen 579	Interfine 878
Interthane 870	Interthane 990
Interthane 990SG	

Where a polysiloxane topcoat is envisaged, application of a tie coat over the Interchar 963 may be necessary; please contact International Protective Coatings for further advice.

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### ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at [www.international-pc.com](http://www.international-pc.com):

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage
- Interchar Application Guidelines

### SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

<b>PACK SIZE</b>	Unit Size	Vol	Pack
	20 liter	20 liter	20 liter
	5 US gal	5 US gal	5 US gal
For availability of other pack sizes contact International Protective Coatings			
<b>SHIPPING WEIGHT (TYPICAL)</b>	Unit Size		
	20 liter		29.2 kg
	5 US gal		60.5 lb
<b>STORAGE</b>	Shelf Life	12 months minimum at 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.	

### Disclaimer

*The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.*

*This Technical Data Sheet is available on our website at [www.international-marine.com](http://www.international-marine.com) or [www.international-pc.com](http://www.international-pc.com), and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.*

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