

# Chartek 7



**Product Description** A high performance, high build, solvent free, reinforced epoxy intumescent fireproofing coating.

Lloyd's and DNV structural and divisional certificates. Jet fire tested.

**Intended Uses** To protect steelwork (structural, divisional and vessels) in a hydrocarbon fire and to preserve functional integrity for a specified period of time.

**Practical Information for Chartek 7**

**Colour** Medium Grey  
**Gloss Level** Not applicable  
**Volume Solids** 100%  
**Typical Thickness** Depends on protection required  
**Density** 1000 kg/m<sup>3</sup> - spray applied  
**Method of Application** Hot twin feed airless spray

**Drying Time**

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			<i>Minimum</i>	<i>Maximum</i>
15°C (59°F)	2 hours	12 hours	12 hours	*
25°C (77°F)	1 hour	6 hours	6 hours	*
40°C (104°F)	1 hour	4 hours	4 hours	*

\* Consult International Coatings

**Regulatory Data**

	Base (Part A)	C/A (Part B)	Mixed
<b>Flash Point</b>	>106°C (223°F)	>106°C (223°F)	>106°C (223°F)
<b>VOC</b>	0.00 g/l	UK - PG6/23(92), Appendix 3	
	0.00 lb/gal	(0.00 g/l) USA - EPA Method 24	

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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 8504:1992.

### Abrasive Blast Cleaning

This product should only be applied to surfaces prepared by abrasive blast cleaning to Sa2½ (ISO 8501-1:1998) or SSPC-SP10.

### Primers

Selected primers or priming systems must have completed the primer qualification procedure from International Coatings and feature on International Coatings published primer list. The preferred system shall be an epoxy polyamide (e.g. Intergard 269) at a thickness not exceeding 75 microns (3 mils). A two coat primer system, such as epoxy zinc (e.g. Interzinc 52) and tiecoat (e.g. Intergard 269), should not exceed 110 microns (3.5 mils) dry film thickness.

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## Application

All applications of Chartek 7 shall strictly conform with procedures laid down in International Coatings Chartek 7 Application Manual.

**Mixing** If applying Chartek 7 by conventional airless spray, pump or trowel, it will first be necessary to thoroughly power mix a kit of Chartek 7. Individual components must have been stored for 24 hours at 23°C (73°F) and fully power agitated before mixing.

**Mix Ratio** Always mix full units unless application is by hand

<b>Working Pot Life</b>	15°C (59°F) 90 minutes	25°C (77°F) 50 minutes
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<b>Airless Spray</b>	Suitable - Small areas only	Use 68:1 airless spray
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<b>Plural Component Airless Spray</b>	Recommended	Coverdale Pneumatics, AirTech or other equipment approved by International Coatings
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**Trowel** Suitable - Small areas only

**Thinner** International GTA822 Only for pre-mix and hand application - Consult Application Manual.

**Cleaner** International GTA822

**Work Stoppages** Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.

**Clean Up** Clean all equipment immediately after use with International GTA822. 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 following conditions shall apply (or be generated) throughout the application:-

<b>Minimum Air Temperature</b>	10°C (50°F)
<b>Maximum Humidity</b>	85%
<b>Steel Temperature</b>	A minimum of 3°C (5°F) above dew point of surrounding air.
<b>General</b>	Clean and dry at all times.
<b>Application</b>	Apply Chartek 7 and thoroughly roll and trowel the material to ensure that total wetting of the substrate is achieved
<b>Mesh Application</b>	International Coatings HK-1 carbon composite mesh or galvanised wire mesh should be installed in accordance with specific fire design and as detailed in the Application Manual.
<b>After Mesh Application</b>	Continue to spray apply Chartek 7 - bring up to the required film thickness
<b>Equipment</b>	Only equipment approved by International Coatings shall be used as detailed in the Chartek 7 Application Manual or by the International Coatings Field Service Engineer
<b>Applicator Qualification</b>	Only companies in receipt of Qualified Applicator status from International Coatings shall be used for Chartek 7 application. Companies shall document that they comply with this requirement prior to work commencement.  Supervising and QA personnel on site shall be in receipt of individual qualifications, having attended an International Coatings Chartek Applicators School. This is a minimum requirement and shall be documented prior to work commencement
<b>Inspection &amp; QA</b>	This is the responsibility of the Applicator but as a minimum must conform to the procedures laid down in International Coatings Chartek QC Manual
<b>Field Service</b>	This is available from International Coatings and should be co-ordinated to ensure attendance at job start up. The Application Contractor is responsible for ensuring International Coatings is notified of start up date.
<b>Alternative Surface Preparation</b>	International Coatings procedures are also developed and available under certain project specific circumstances for wet blasting, needle gunning and ultra high pressure water blasting - Seek specific advice from International Coatings - Fire and Insulation Products.
<b>Maximum Surface Operating Temperature</b>	80°C (176°F)

## Systems Compatibility

Chartek 7 is almost always topcoated with paint, especially for offshore use. International Coatings make no specific comment on paint type used, except that most high performance types are suitable, with epoxy and polyurethane normally being used. Typical specifications are:-

Aliphatic Isocyanate Hydroxy Acrylic (e.g. Interthane 990)	2 x 50 microns (2 x 2 mils) d.f.t.
Isocyanate Free Epoxy Acrylic (e.g. Interfine 629 HS)	2 x 50 microns (2 x 2 mils) d.f.t.

The best time to overcoat Chartek 7 is 'wet on wet' or within 12 hours of application and before the coating has had any chance to become contaminated.

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## Additional Information

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the International Protective Coatings data manual, Chartek Application and Quality Manuals.

Specific fire scenarios, e.g. those containing a portion of the duration where jet fire is anticipated, may require specific meshing and coating thickness. Details need to be addressed on a project specific basis for the acceptance of the Certifying Authority, e.g. Lloyd's or DNV.

## 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 Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

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 Coatings for further advice.

<b>Pack Size</b>	20.0kg (44.11lb) Unit
	For availability of other pack sizes contact International Protective Coatings
<b>Shipping Weight</b>	U.N. Shipping No. Non Hazardous
	14.2kg (31.33lbs) In a 6 gallon pail 5.8kg (12.78lbs) In a 2 gallon pail
<b>Storage</b>	Shelf Life 1 year under normal temperature conditions.

## Disclaimer

*The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Any warranty, if given, or specific Terms & Conditions of Sale are contained in International's Terms & Conditions of Sale, a copy of which can be obtained on request. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or 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 whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.*

*It is the user's responsibility to check that this sheet is current prior to using the product. Issue date: 02/08/2000*

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## International Protective Coatings

### Worldwide Availability

World Centre	Asia Region	Australasia Region	Europe Region	Middle East Region	North America Region	South America Region
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