Chartek_® 8E





Overcoating Interval with

PRODUCT DESCRIPTION

Chartek 8E is a high performance, high build, solvent free, two component epoxy intumescent fire protection coating system. It is lightweight, durable and provides excellent corrosion protection.

Chartek 8E is independently tested and certified as as a passive fire protection system; preserving the structural and functional integrity of the protected item for specified periods of time against the effects of hydrocarbon fires.

INTENDED USES

Suitable for the protection of steel, aluminium and other substrates from the effects of hydrocarbon pool and jet fires.

To preserve functional integrity for a specified period of time of structures, pipework, vessels and fire resistant divisions.

Primarily intended for use in high risk environments such as oil, gas, petrochemical and power generation industries.

PRACTICAL INFORMATION FOR CHARTEK 8E

Colour	Medium Grey	
Gloss Level	Not applicable	
Volume Solids	100%	
Typical Thickness	Dependent on level of protection required.	
Density Method of Application	1000 kg/m³ (62.427 lb/ft³) plural spray applied (ISO 1183:2004 Method A) Two component heated plural spray unit, modified airless spray unit or trowel applied (see Application section)	

Drying	Time
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Flash Point (Typical)

			recommended topcoats		
Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
10°C (50°F)	9 hours	16 hours	16 hours	*1	
25°C (77°F)	9 hours	9 hours	9 hours	*1	
40°C (104°F)	5 hours	6 hours	6 hours	*1	
1 * Consult International Protective Coatings for advice					

REGULATORY DATA

voc	1 g/lt	Calculated		
	1 g/lt (0 lb/gal)	EU Solvent Emissions Directive (Council Directive 1999/13/EC)		

Part A >106°C (>223°F); Part B >106°C (>223°F); Mixed >106°C (>223°F)

See Product Characteristics section for further details



Epoxy Intumescent

SURFACE PREPARATION

XInternational

Abrasive Blast Cleaning

This product must only be applied to surfaces prepared by abrasive blast cleaning to Sa2½ (ISO 8501-1:2007) or SSPC-SP10.

All surfaces to be coated should be clean, dry and free from contamination. Prior to application all

surfaces should be assessed and treated in accordance with ISO 8504:2000.

Primers

Selected primers or priming systems must have completed the primer qualification procedure from International Protective Coatings, feature on the International Protective Coatings published qualified primers list and be applicable to the appropriate certification. The preferred primer shall be an epoxy polyamide (e.g. Intergard 251) at a thickness not exceeding 75 microns (3 mils). Alternatively, a two coat primer system, such as epoxy zinc (e.g. Interzinc 52) and tie coat (e.g. Intergard 269) may be used, and should not exceed 110 microns (4.5 mils) combined dry film thickness.

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Mixing If applying Chartek 8E by modified single feed airless spray pump or

trowel, it will first be necessary to thoroughly power mix a kit of Chartek 8E. Individual components must have been stored for 24 hours at 25 - 30°C (77

- 86°F) and fully power agitated before mixing.

Mix Ratio Always mix full kits. (For trowel application refer to the Chartek Application

Guidelines).

Working Pot Life 15°C (59°F) 25°C (77°F) 30°C (86°F)

120 minutes 90 minutes 45 minutes

The above figures are for trowel application. Working pot life is not applicable for plural airless spray application as the product is only mixed at the spray gun, at the point of application. For pre-mix airless spray, working pot life will be reduced in relation to the above figures. Refer to

the Chartek Application Guidelines.

Plural Component Airless Spray Recommended and

preferred

Heated plural equipment approved by International Paint No thinners required.

Airless Spray Recommended Recommended use minimum 68:1 modified

airless spray unit, as qualified by International

Protective Coatings.

Trowel Suitable Small areas only

Thinner International GTA123 Only for pre-mix and trowel application - consult

Application Guidelines

Cleaner International GTA007

Work Stoppages Do not allow material to remain in hoses, gun or spray equipment.

Thoroughly flush all equipment with International GTA123. 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 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 following conditions shall apply (or be generated) throughout the application:

Minimum Air Temperature 10°C (50°F)
Maximum Humidity 85%

Surface Temperature A minimum of 3°C (5°F) above dew point of surrounding air. **General** Surfaces must be clean, dry and free from contaminants

immediately prior to coating.

International

Application

Chartek 8E should be spray applied to ensure total wetting of the substrate is achieved. Where this is not possible by spray alone, then the first coat should be thoroughly trowelled and rolled to achieve this.

The best time to overcoat Chartek 8E with itself is 'wet on wet' or within 12 hours of application and before the coating has had any chance to become contaminated.

Mesh Application

If mesh reinforcement is required, International Paint's HK-1 or HK-2 carbon composite mesh should be installed in accordance with specific fire design and as detailed in the Chartek Application Guidelines. For mesh requirements seek specific advice from International Protective Coatings.

After Mesh Application (if applicable)

Continue to spray apply Chartek 8E to bring up to the required film thickness

Applicator Qualification

Only companies in receipt of Qualified Applicator status from International Protective Coatings shall be used for Chartek 8E application. Companies shall document that they comply with this requirement prior to work commencement.

The Chartek 8E application shall be conducted by the Applicator Company using employees trained in the proper application procedures. As a minimum, Supervisory and QA/QC personnel on site shall be in receipt of individual qualifications, having attended an International Protective Coatings Chartek Applicator Training School. This is a minimum requirement and shall be documented prior to work commencement.

Inspection & QA

This is the responsibility of the Applicator but as a minimum must conform to the procedures laid down in International Protective Coatings Chartek QC Manual

Technical Service

This is available from International Protective Coatings and should be co-ordinated to ensure attendance at job start up. The Applicator Company is responsible for ensuring International Protective Coatings is notified of start up date.

Alternative Surface Preparation

Under certain project specific circumstances, International Protective Coatings has developed procedures for wet blasting, ultra high pressure water blasting (hydroblasting) and power tool cleaning. Consult International Protective Coatings for further details.

Continuous Operating Temperature

At service temperatures greater than 120°C (>248°F) a suitable thermal barrier should be used between the substrate and Chartek 8E.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

Minimum recommended; two component polyurethane topcoat, International Protective Coatings' Interthane 990, applied at a dry film thickness of 50 microns (2 mils). For alternatives, contact International Protective Coatings.

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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:

- · Definitions & Abbreviations
- · Surface Preparation
- Paint Application
- · Theoretical & Practical Coverage
- Chartek 8E Application Guidelines

Individual copies of these information sections are available upon request.

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 Protective Coatings for further advice.

PACK SIZE	Unit Size	Part A Weight	A Pack	Part B Weight	Pack
	50 kg	35.7 kg	20 litre	14.3 kg	20 litre
	50kg (110.2 lb) kit supplied as 2 full drums Part A and 1 full drum Part B.				ull drum Part B.
	For availability of ot	her pack siz	es, contact Int	ternational F	Protective Coatings.
SHIPPING WEIGHT	Unit Size	Pai	rt A	Part B	
(TYPICAL)	50 kg	39.3	3 kg	16.1 kg	
STORAGE	Shelf Life	1 year under normal temperature conditions. Should be stored indoors and out of direct sunlight. A temperature range of 1-30°C (34-86°F) must be maintained.			

Important Note

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 or 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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