Chartek_® 8823

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Epoxy Intumescent

PRODUCT DESCRIPTION Chartek 8823 is a high performance, patented, boron free, modified epoxy intumescent fire protection solution.

The product is a high build, two pack material providing excellent durability and combined corrosion, fire and cryogenic protection.

Certified for structural fire protection on carbon steel. Tested in accordance with GB 14907-2018 using the hydrocarbon fire curve stated in GA/T 714-2007, applied direct to black steel.

INTENDED USES

Suitable for the protection of steel from the effects of cryogenic liquid release, hydrocarbon pool and jet fires.

To preserve the functional integrity of structures and process equipment for a specified period of time.

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

PRACTICAL INFORMATION FOR CHARTEK 8823

Gloss Level Not applicable

Volume Solids 100%

Typical Thickness Depends on protection required

Practical Coverage Allow appropriate loss factors

Method of Application Heated Plural Component Airless Spray, Trowel

Drying Time

Overcoating interval with self

Temperature	Touch Dry	Hard Dry	Minimum	Maximum
10°C (50°F)	5 hours	19 hours	2 hours	*
25°C (77°F)	4 hours	8 hours	2 hours	*
40°C (104°F)	3 hours	7 hours	60 minutes	*

^{*}Please consult AkzoNobel for further information

REGULATORY DATA

Flash Point (Typical) Part A >100°C (212°F); Part B >100°C (212°F); Mixed >100°C (212°F)

VOC 0.04 lb/gal (5 g/lt) EPA Method 24

0 g/kg EU Solvent Emissions Directive

(Council Directive 2010/75/EU)

<6g/l GB30981-2020

See Product Characteristics section for further details

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SURFACE **PREPARATION** Surface preparation and application should be carried out in accordance with the advice given in AkzoNobel Chartek 8823 Application Manual.

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.

Abrasive Blast Cleaning

Chartek 8823 is typically applied to surfaces which have been abrasive blast cleaned to a standard of Sa21/2 (ISO8501-1:2007) or SSPC-SP10 and suitably primed.

Primers

Selected primers or priming systems must be stated on the qualified primer list from AkzoNobel. The preferred primer shall be an epoxy type at a specified thickness not exceeding 75 microns (3 mils). Alternatively, a two coat primer system, such as epoxy zinc and tie coat may be used; the combined specified thickness should not exceed 110 microns (4.5 mils).

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Mixing For trowel application individual components should be stored at 35°C (95°

F) and fully power agitated before mixing.

Mix Ratio 1.25 part(s): 1 part(s) by weight

(Refer to the Chartek 8823 Application Manual)

Working Pot Life 10°C (50°F) 25°C (77°F) 40°C (104°F)

30 minutes 30 minutes 30 minutes

Pot life values refer to trowel workability without thinning, heated to 35°C (95°F) before mixing. If material is not pre-heated pot life will be extended but mixing will be more difficult.. Working pot life is not applicable for plural airless spray application as the product is only mixed at the static mixer close to the spray gun, at the point of application. Refer to the

Chartek 8823 Application Manual.

Plural Component Airless Spray

Recommended and preferred

No thinners required

Airless Spray Not suitable

Suitable Refer to the Chartek 8823 Application Manual Trowel Thinner International GTA123 Only for pre-mix and trowel application - consult

Chartek 8823 Application Manual

Cleaner International GTA220S Choice of cleaner maybe subject to local

legislation. Please consult your local representative for specific advice.

Heated plural equipment approved by AkzoNobel.

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

Thoroughly flush all equipment with International GTA220S. 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 GTA220S. 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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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 the dew point of surrounding air General: Surfaces must be clean, dry and free of contaminants immediately prior to coating.

Application

Chartek 8823 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 8823 with itself is as soon after the minimum overcoating interval has been achieved or before the coating has had any chance to become contaminated.

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Where Chartek 8823 is overcoated with cosmetic topcoats, the following overcoat intervals will apply:

	Minimum	Maximum	
10°C (50°F) 25°C (77°F)	8 hours 2 hours	14 days 14 days	
40°C (104°F)	2 hours	14 days	

Mesh Application

Charlok mesh should be installed in accordance with specific fire design and as detailed in the Chartek 8823 Application Manual. For mesh requirements seek specific advice from AkzoNobel.

Equipment

Only equipment qualified by AkzoNobel shall be used as detailed in the Chartek 8823 Application Manual and by the AkzoNobel Technical Service Representative.

Applicator Qualification

Only companies in receipt of Qualified Applicator status from AkzoNobel shall be used for Chartek 8823 application. Companies shall document that they comply with this requirement prior to work commencement.

The Chartek 8823 application shall be conducted by the Applicator Company using employees trained and qualified 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 AkzoNobel 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 AkzoNobel Chartek QC Manual

Technical Service

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

Alternative Surface Preparation

Under certain project specific circumstances, AkzoNobel has developed procedures for wet blasting, ultra high pressure water blasting (hydroblasting) and power tool cleaning.

Maximum Surface Operating Temperature

At service temperatures of between 80°-120°C (176°-248°F) a suitable thermal barrier, e.g. Intertherm 7050, should be used between the substrate and the Chartek 8823.

SYSTEMS COMPATIBILITY

Chartek 8823 is designed for application to correctly prepared substrates which have been suitably primed. The following primer examples are qualified for use with Chartek 8823:

Interdur 8816 Interdur 8817

Generally Chartek 8823 will be topcoated to meet owners' colour schemes and finish requirements. The following topcoats are recommended for Chartek 8823:

Interdur 8860

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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

Individual copies of these information sections are available upon request.

SAFFTY **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 AkzoNobel for further advice.

PACK SIZE

Part A Part B Kit Size

Weight Weight 39.6 kg (88 lb) kit 22kg (48.4lb)

17.6kg (38.7lb)

For availability of other pack sizes, contact AkzoNobel.

SHIPPING WEIGHT

(TYPICAL)

Kit Size Part A Part B

Weight Weight

19.8kg (43.6lb) 39.6 kg (88 lb) kit 24.2kg (53.2lb)

STORAGE Shelf Life 12 months at 25°C (77°F). Subject to re-inspection thereafter.

Store in dry, shaded conditions away from sources of heat and

ignition.

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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