

## Bauxite Cement Fire Protection

### PRODUCT DESCRIPTION

Interkote 1460 is a lightweight, bauxite based cementitious fire protection material.

Interkote 1460 systems address the challenges of protecting onshore oil, gas and chemical processing facilities, as well as industrial structures, with cementitious fireproofing materials.

Formulated with bauxite, Interkote 1460 provides cost effective fire resistance in accordance with UL1709.

Interkote 1460 provides up to four hours hydrocarbon pool and jet fire resistance.

### INTENDED USES

For use in the onshore oil, gas, petrochemical and power generation industries under certain specified conditions.

For in situ applications to pre-erected structures, to provide protection from the effects of hydrocarbon pool and jet fires.

### PRACTICAL INFORMATION FOR INTERKOTE 1460

<b>Colour</b>	Grey
<b>Gloss Level</b>	Not applicable
<b>Volume Solids</b>	Not applicable
<b>Typical Thickness</b>	Depends on protection required. Normally in the range of 25 - 54 mm (1 - 2 1/8 inches)
<b>Theoretical Coverage</b>	A single bag of Interkote 1460 will provide 25mm of fire protection to an area of 1.46m <sup>2</sup>
<b>Practical Coverage</b>	Allow appropriate loss factors
<b>Density</b>	Minimum 640kg/m <sup>3</sup> (40lb/ft <sup>3</sup> when spray applied (ASTM E605). The final applied density will be affected by equipment used and method of application. For further information, consult the <b>Interkote Application Guidelines</b> .
<b>Method of Application</b>	Standard mortar mixer and pump, Trowel (Trowel application is possible once the product has been sprayed into a suitable container. Hand trowelling straight from the mixer is unacceptable)

### Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
25°C (77°F) <sup>1</sup>	*1	*1	1	1

<sup>1</sup> Cure will depend on a number of environmental conditions including temperature and humidity as well as thickness applied. Maximum cure is typically achieved after 28 days. After complete cure (maximum humidity of 3.5% measured with a plasterer's moisture meter) Interkote 1460 may be overcoated with coatings specifically approved for use over Portland cement-based products.

### REGULATORY DATA

<b>Flash Point (Typical)</b>	Not applicable	
<b>VOC</b>	0 g/lit	Calculated

## Protective Coatings

## Bauxite Cement Fire Protection

### SURFACE PREPARATION

Surface preparation and application should be carried out in accordance with the advice given in the **Interkote Application Guidelines** available from International Paint.

Before applying Interkote 1460 the substrate must be free of all oil, grease, excess condensation or other contamination.

#### Carbon Steel Substrates

Preparation of carbon steel prior to application of a suitable primer should be done in accordance with the primer manufacturer's product datasheet. Please consult your local International Protective Coatings representative for advice on primer selection. Mechanical reinforcement in the form of galvanised expanded metal lath is required in all exterior environments. Steel reinforcements must be pre-approved by International Protective Coating Technical Service.

#### Galvanised Steel

Interkote is compatible for application over galvanised steel surfaces without the need for a primer. Prior to Interkote application, mechanical reinforcement in the form of galvanised expanded steel metal lath must be attached (in accordance with the guidelines detailed in the Interkote Application Manual). If alkalinity is a concern, an approved primer can be applied to the galvanised steel surface at the discretion of the client.

#### Stainless Steel

Stainless steel structural steel surfaces that are compatible with Portland cement are acceptable. Stainless steel reinforcement must be applied and mechanically fastened to all surfaces prior to application of the fireproofing product.

#### Aluminium

Interkote 1460 shall not be applied to aluminium substrates.

#### Primers

Selected primers or priming systems must have completed the primer qualification procedure from International Protective Coatings, feature on International Protective Coatings' published qualified primers list and be applicable to the appropriate certification. Please consult your local International Protective Coatings representative for advice on primer selection.

### APPLICATION

#### Mixing

Interkote 1460 shall be mixed by machine in a conventional paddle type or continuous mixer designed for cementitious fireproofing. The mixer shall be kept clean and free of all previously mixed material. The mixer speed shall be adjusted to the lowest speed which gives adequate blending of the material and a mixer density of 835 - 945 kg/m<sup>3</sup> (52-59 lb/ft<sup>3</sup>).

Using a suitable metering device, add approximately 15 litres (4 gallons) of water per bag to the mixer as the blades turn. Add Interkote 1460 and mix until the material is lump-free with a creamy texture. Overmixing Interkote 1460 will reduce pumping rate and density.

It is important to obtain a uniform mix density in order to maintain a proper mixing/spraying operation. To ensure you obtain the proper density, follow the procedure and yield chart in the **Interkote Application Guidelines**.

#### Mix Ratio

When mixing water with Interkote 1460 it is important to achieve the correct mix ratio as per the yield chart in the **Interkote Application Guidelines** as this will be critical to obtaining the desired dry density.

#### Working Pot Life

20°C (68°F)

2 hours

Material that becomes unusable should not be reworked.

Consult the **Interkote Application Guidelines** for details of application methods and equipment.

#### Work Stoppages

Freshly mixed material can remain in the delivery system for up to two hours. Best practice is to move material after the first hour and avoid long periods of downtime. Any material in the hopper can be stirred; material in the mixer can be mixed for a few seconds longer before pumping.

Material should not be left in the lines for longer than necessary as it will begin to stiffen. If this does occur there is no safe way to clean out the hoses; consult the **Interkote Application Guidelines** for advice in this instance.

#### Clean Up

When cleaning the material lines continue to run water through until it runs clear. If material has been left in the lines for a short period of time a sponge should be run in case material has built up on the walls of the hoses.

All surplus materials and empty containers and bags should be disposed of in accordance with appropriate regional regulations/legislation.

## Bauxite Cement Fire Protection

### PRODUCT CHARACTERISTICS

Refer to Interkote 1460 Test Data Sheet for typical mechanical properties.

The following conditions shall apply (or be generated) throughout the application:

Minimum Air Temperature: 4°C (39°F)

Do not start work if ambient temperatures are expected to drop below 2°C (35°F) within 24 hours after application.

Maximum Air Temperature: 40°C (104°F)

### Mesh Application

Before applying Interkote 1460, mechanical reinforcement must be attached to the substrate. Detailed specifications and application instructions are provided in the **Interkote Application Guidelines**. For specific advice on metal lath requirements contact your local International Protective Coatings representative.

### Product Application

Interkote 1460 may be applied by spray and/or trowel. It is recommended that Interkote 1460 is spray applied to the substrate or into a suitable container prior to trowelling.

It is recommended that the total required thickness be applied within a 24 hour period. If this is not possible, the preceding coats should be left as sprayed or scored after the initial 24 hour period; Interkote 1460 should then be dampened with water before application of additional coats.

Fresh Interkote 1460 must be protected from rain or running water for 24 hours at 21°C (70°F). In low humidity, high temperatures, direct sun or wind, the Interkote 1460 surface should be kept damp for at least 12 hours by applying a water mist or wrapping in plastic sheets to reduce rapid water loss.

Consult the **Interkote Application Guidelines** for further advice.

### Surface Finish

Various surface finishes can be achieved with Interkote 1460 dependent on the method of application. If a smooth finish is required, trowel, roller or brush may typically be used within an hour of final application of Interkote 1460. For more information consult the **Interkote Application Guidelines**.

### Applicator Qualification

To ensure the standard of Interkote 1460 application is kept to a consistently high quality, Interkote 1460 will only be supplied to Applicators that are able to prove a sufficient level of competence in application of cementitious fire protection materials. International Protective Coatings reserves the right to restrict supply until this condition has been met.

### Technical Service

In certain circumstances technical service may be required at the commencement of product application. When this is the case, technical service will be made 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 the project start up date.

### Maximum Surface Operating Temperature

93°C (200°F)

### SYSTEMS COMPATIBILITY

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Consult International Protective Coatings for specific advice.

## Bauxite Cement Fire Protection

### 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

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

Kit Size  
22.2kg Bag (48.9lb)

### SHIPPING WEIGHT (TYPICAL)

Kit Size  
22.5kg (49.5lb)

### STORAGE

**Shelf Life** 12 months under recommended storage conditions. The material shall be kept dry until ready for use. Packages of material shall be kept off the ground, under cover and away from sweating walls and other damp surfaces. All material that has been exposed to water before use shall be discarded. Stock of material is to be rotated and used before its expiration date.

### 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](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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supplier : [manage@findotek.com](mailto:manage@findotek.com)