Interchar® 1160

Water Borne Intumescent Coating

PRODUCT DESCRIPTION

A single pack, chlorine- and borate-free, water borne intumescent coating, independently tested at UKAS accredited laboratories.

As a water borne product, Interchar 1160 offers a more environmentally friendly option for protection of structural steelwork, especially where aesthetics are important. Its very low odour allows for application on site and in occupied or hygienically sensitive areas.

Interchar 1160 is a CE marked product with European Technical Approval ETA-11/0460.

INTENDED USES

To provide up to 60 minutes fire protection on I-section beams, columns and hollow sections in internal environments.

Interchar 1160 has been tested and assessed for fire resistance in accordance with EN 13381 Part 8.

PRACTICAL INFORMATION FOR INTERCHAR 1160

Colour	White
Gloss Level	Matt
Volume Solids	68% ± 3% (measured according to ISO 3233 and CEPE Guidance Method)
Typical Thickness	300-700 microns dry equivalent to 441-1029 microns wet achievable in one coat.
Theoretical Coverage	0.97 m²/litre at 700 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Brush, Roller

Drying Time

			Overcoating interval with self	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
10°C (50°F)	5 hours	6 hours	18 hours	Extended[1]
15°C (59°F)	4 hours	5 hours	12 hours	Extended[1]
25°C (77°F)	2 hours	4 hours	6 hours	Extended[1]
40°C (104°F)	1 hour	3 hours	4 hours	Extended[1]

[1] See International Protective Coatings Definitions and Abbreviations

All drying time data has been quoted at the typical thickness of 700 microns (28 mils) d.f.t.
Minimum overcoating interval of Interchar 1160 with topcoats is 24 hours.

REGULATORY DATA

Flash Point (Typical)	>101°C (214°F)	
Product Weight	1.4 kg/l (11.7 lb/gal)	
VOC	0 g/kg	EU Solvent Emissions Directive (Council Directive 2010/75/EU)
	20 g/l	EU Product Directive (Council Directive 2004/42/EC)

See Product Characteristics section for further details

SURFACE PREPARATION

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

Interchar 1160 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Interchar 1160 must be applied within the overcoating intervals specified (consult the Interchar 1160 Application Guidelines).

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 a full coat of primer applied prior to overcoating with Interchar 1160.

Metallic Zinc Primed Surfaces

Interchar 1160 can be applied over approved epoxy metallic zinc primers, provided that these have been overcoated with an approved tie coat. Ensure that the primed surface is clean, dry and free from contamination prior to application of the Interchar 1160. Recommended tie coats are Intergard 269 or Intergard 276.

Galvanised Substrates

Galvanised steel substrates should be thoroughly cleaned and degreased, followed by sweep blasting, prior to application of an approved primer such as Intergard 269 or Intergard 276.

APPLICATION

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.	
Airless Spray	Recommended	Tip Range 0.43-0.53 mm (17-21 thou) Total output fluid pressure at spray tip not less than 175 kg/cm² (2489 p.s.i.)
Air Spray (Pressure Pot)	Not recommended	
Air Spray (Conventional)	Not suitable	
Brush	Suitable - Small areas	Typically 100-300 microns (4.0-12.0 mils) can be achieved per coat
Roller	Suitable - Small areas	Typically 100-300 microns (4.0-12.0 mils) can be achieved per coat
Thinner	Not normally required	
Cleaner	Clean Water	
Work Stoppages	Do not allow material to remain in hoses, guns or spray equipment. Thoroughly flush all equipment with clean water. Do not use organic solvents. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning after storage.	
Clean Up	Clean all equipment immediately after use with clean water. 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 1160 Application Guidelines should be consulted prior to use.

Interchar 1160 must be protected from freezing at all times during storage and transport.

Surface temperature must always be a minimum of 3°C (5°F) above dew point.

Maximum 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.

Care must be taken not to over-apply on areas such as internal angles, corners, edges, etc.

The finished appearance of Interchar 1160 is dependent on application method. For visible areas spray application is preferred, which can provide a smooth finish. Higher decorative finishes may require additional preparation before application of topcoats; please see Application Guidelines for further information.

Interchar 1160 has been tested to EN 13381 Part 8 and ETAG No. 18; please contact International Protective Coatings for further details.

When used in combination with an anti-corrosive primer and suitable topcoat(s), Interchar 1160 can be used for internal environments classified up to C3, as defined in ISO 12944-2:1998.

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

The following primers are approved for use with Interchar 1160, through testing in accordance with ETAG No. 18

Intercryl 525	Intercure 200
Intercure 200HS	Intergard 251
Intergard 269	Intergard 276
InterH2O 499	Interprime 306
Interseal 670HS	Interseal 1052

Interchar 1160 may also be applied over Interzinc 52 providing a suitable tie coat is also used; please see Surface Preparation section.

The following topcoats are approved for use with Interchar 1160, through testing in accordance with ETAG No. 18:

Intercryl 525	Intersheen 579
Interthane 870	Interthane 990
Interthane 990SG	

There is a wider range of primers and topcoats which may be suitable for use with Interchar 1160; please contact International Protective Coatings for further information and assistance.

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.

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.

PACK SIZE	Unit Size	Vol	Pack
	20 litre	20 litre	20 litre

For availability of other pack sizes, contact International Protective Coatings.

SHIPPING WEIGHT (TYPICAL)	Unit Size	
	20 litre	30.2 kg

STORAGE		
	Shelf Life	12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

Important Note

www.international-pc.com