Interchar® 1290

Water Borne Acrylic

PRODUCT DESCRIPTION

A single component, borate and chlorine free, water borne intumescent coating designed for on-site application to structural steel requiring protection from cellulosic fire.

Interchar 1290 is a low VOC acrylic intumescent material independently fire tested in accordance with BS 476 Parts 20-22.

INTENDED USES

To provide up to two hours cellulosic fire protection on hollow sections exposed in interior environments.

PRACTICAL INFORMATION FOR INTERCHAR 1290

Colour	White
Gloss Level	Matt
Volume Solids	74% (measured according to ISO 3233)
Typical Thickness	220-740 microns (8.8-29.6 mils) dry equivalent to 297-1000 microns (11.9-40 mils) wet Can be applied up to 1000µm DFT in a single coat Required film thickness is dependent upon fire rating
Theoretical Coverage	1.06 m²/litre at 700 microns d.f.t and stated volume solids 42 sq.ft/US gallon at 28 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Brush

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating interval with self *Minimum*	*Maximum*
10°C (50°F)	5 hours	6 hours	16 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	3 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. and assuming good air flow.

Minimum overcoating interval of Interchar 1290 with topcoats is 24 hours. Further details on minimum overcoating times are contained in the Application Guidelines.

REGULATORY DATA

Flash Point (Typical)	>101°C (214°F)	
Product Weight	1.425 kg/l (11.9 lb/gal)	
VOC	0.00 lb/gal (0 g/lt) 0 g/kg	EPA Method 24 EU Solvent Emissions Directive (Council Directive 2010/75/EU)
	33 g/l	EU Product Directive (Council Directive 2004/42/CE)

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 1290 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Interchar 1290 must be applied within the overcoating intervals specified (consult the Interchar 1290 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 1290.

Metallic Zinc Primed Surfaces

Interchar 1290 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 1290. Recommended tie coat is Intergard 269.

APPLICATION

Mixing	This material is a one component coating and should always be mixed thoroughly with a power agitator before application.	
Mix Ratio	Not applicable	
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	Recommended for small areas and repairs, multiple coats will be necessary to achieve the required dry film thickness.
Roller	Suitable - Small areas	Typically 100-300 microns (4.0-12.0 mils) can be achieved
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.	

PRODUCT CHARACTERISTICS

The detailed Interchar 1290 Application Guidelines should be consulted prior to use.

Interchar 1290 must be protected from freezing at all times during storage and transport. For optimum application and drying characteristics, the air and substrate temperature should be greater than 10ºC (50ºF) and relative humidity less than 85%. Good air flow and ventilation should be maintained to improve drying and recoat properties and speed up the application. Application at temperatures below 10ºC (50ºF) will retard drying and extend overcoatings intervals, as will higher humidities.

Discard frozen Interchar 1290 in accordance with local disposal regulations. Do not thaw frozen material and apply.

Surface temperature must always be a minimum of 3°C (5°F) above dew point. In line with good painting practice, application should not take place in conditions which are deteriorating, e.g. the temperature is falling or there is a risk of condensation forming.

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.

For optimum drying properties when applying Interchar 1290 at dry film thicknesses above 700µm (28 mils), it is recommended that two coats are applied, observing the minimum overcoating times between coats. It is possible to apply Interchar 1290 up to 1000µm (40 mils) dry film thickness in a single coat, however, drying, hardness development and handling times will be longer. Time to handle will vary as a function of overall film thickness applied, humidity and ventilation rate.

The finished appearance of Interchar 1290 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 1290 is approved for interior exposure environments classified in accordance with ISO 12944. Consult International Paint for the appropriate primer and topcoat systems for the specified interior environment.

Interchar 1290 (whether sealed or not) should be protected from pooling or running water. Interchar 1290 is not designed for frequent water immersion/soaking.

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 1290:

Intercure 200	Interprime 306
Intercure 200HS	Interseal 1052
Intergard 251	Interseal 670HS
Intergard 269	Interzinc 52

The following topcoats are approved for use with Interchar 1290:

Intersheen 579
Interthane 870
Interthane 990
Interthane 990SG
Interthane 990UHS

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