

Water Borne Intumescent Coating

PRODUCT DESCRIPTION

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

Interchar 1120HY is a low VOC acrylic intumescent material independently fire tested for up to 3 hour fire ratings in accordance with ASTM E119/UL263.

INTENDED USES

To provide cellulosic fire protection on beams, columns and hollow sections in interior environments

PRACTICAL INFORMATION FOR INTERCHAR 1120HY

Color	White
Gloss Level	Matte
Volume Solids	68% ± 3%
Typical Thickness	12-40 mils (300-1000 microns) dry equivalent to 18-60 mils (441-1471 microns) wet
Theoretical Coverage	42 sq.ft/US gallon at 26 mils d.f.t and stated volume solids 1 m ² /liter at 650 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Roller, Brush

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
50°F (10°C)	5 hours	6 hours	16 hours	Extended ¹
59°F (15°C)	4 hours	5 hours	12 hours	Extended ¹
77°F (25°C)	2 hours	4 hours	6 hours	Extended ¹
104°F (40°C)	1 hour	3 hours	3 hours	Extended ¹

¹ See International Protective Coatings Definitions & Abbreviations

All drying time data has been quoted at the typical thickness of 28 mils (700 microns) d.f.t. and assuming good air flow.

Minimum overcoating interval of Interchar 1120HY with topcoats is 24 hours.

Further details on minimum overcoating times are contained in the Application Guidelines.

REGULATORY DATA

Product Weight	11.8 lb/gal (1.41 kg/l)
VOC	0.16 lb/gal (20 g/lit) EPA Method 24

See Product Characteristics section for further details

Protective Coatings

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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 1120HY should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Interchar 1120HY must be applied within the overcoating intervals specified (consult the Interchar 1120HY Recommended Working Procedures).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. SSPC-SP6 or Sa2½ (ISO 8501-1:2007), Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and a full coat of primer applied prior to overcoating with Interchar 1120HY.

Zinc Primed Surfaces

Interchar 1120HY can be applied over approved epoxy metallic zinc primers, provided that these have been overcoated with an approved tie coat first. Ensure that the primed surface is clean, dry and free from contamination prior to application of the Interchar 1120HY. Recommended tie coats are 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.	
Mix Ratio	Not applicable	
Airless Spray	Recommended	Tip Range 25-33 thou (0.63-0.84 mm) Total output fluid pressure at spray tip not less than 2503 psi (176 kg/cm ²)
Brush	Suitable - Small areas only	Typically 10.0-16.0 mils (250-400 microns) can be achieved
Roller	Suitable - Small areas only	Typically 10.0-16.0 mils (250-400 microns) 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.	
	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

Interchar 1120HY 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 50°F (10°C) and relative humidity less than 80%. Good air flow and ventilation should be maintained to improve drying and recoat properties and speed up to application. Application at temperatures below 50°F (10°C) will retard drying and extend overcoating intervals, as will higher humidities.

CHARACTERISTICS

Discard frozen Interchar 1120HY in accordance with local disposal regulations. Do not thaw frozen material and apply.

Surface temperature must always be a minimum of 5°F (3°C) 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 angles, corners, edges, etc as cracking may occur.

The finished appearance of Interchar 1120HY is dependent on application method. For visible areas spray application is preferred, which can provide a smooth, fibre-free finish. Higher decorative finishes may require additional preparation before application of topcoats; please see Application Guidelines for further information.

Interchar 1120HY is UL listed for use in Conditioned Interior Space and Interior General Purpose conditions without a topcoat.

Interchar 1120HY (whether sealed or not) should be protected from pooling or running water. Interchar 1120HY 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 color and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

The following primers are approved for use with Interchar 1120HY

Devran 203	Intercure 200
Intergard 251	Interlac 393
Interlac 393	Interprime 306
Interseal 670HS	Tru-Glaze-WB 4406

The following topcoats are recommended for Interchar 1120HY:

Intercryl 525	Interthane 870UHS
Interthane 990HS	Interthane 990

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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
- Interchar 1120HY 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	Vol	Pack
	5 US gal	5 US gal	5 US gal
For availability of other pack sizes contact International Protective Coatings			
SHIPPING WEIGHT (TYPICAL)	Unit Size		
	5 US gal		68.3 lb
STORAGE	Shelf Life	6 months at 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. Protect from frost.	

Disclaimer

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.

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