

Epoxy Intumescent

PRODUCT DESCRIPTION	A high performance, high build, solvent free, two pack modified epoxy intumescent fireproofing coating designed to be used on steelwork requiring protection from cellulosic fires.						
	Independently fire tested. Recognised by FM Approvals as a Specification Tested Product in accordance with ASTM E119. Also tested in accordance with UL 263 (exterior listed), BS 476 Parts 20-22, GOST (Russia), ENV 13381 Pt 4, Australian Standard AS1530.4 (1997) and Korean Standard F 2257.						
	Typically applied off site by specialist applicators Interchar 212 will achieve the required fire protection thickness in only one or two coats. The product has excellent corrosion performance and mechanical properties. Interchar 212 can provide fully fire proofed steelwork without the need to topcoat.						
	Interchar 212 is primarily a spray applied material, and performs without the requirement for any reinforcement.						
INTENDED USES	To assist in preserving the structural integrity of steelwork in a cellulosic fire. Typical structures requiring this protection include a number of public access buildings e.g. Airport Terminals, Leisure Facilities, Convention Centres, Educational Facilities, Shopping Malls, Industrial Complexes and Hotels.						
	Interchar 212 utilises tough durable epoxy technology to provide a material that allows for steelwork to be fabricated and fire protected away from the construction site which helps in both improving quality control and reducing construction schedules.						
PRACTICAL INFORMATION FOR INTERCHAR 212	Colour	Medium Grey					
	Gloss Level	Matt Textured Fi	Matt Textured Finish				
	Volume Solids	100%	100%				
	Typical Thickness	2 mm - 8 mm (0 Typical thicknes	2 mm - 8 mm (0.08 - 0.32 inches) (Dependent on protection required). Typical thickness per coat 3.5 mm (0.14 inches)				
	Theoretical Coverage	1 kg of Interchar on plural compo	1 kg of Interchar 212 will provide 1 mm of fire protection to 1 m ² (based on plural component application)				
	Practical Coverage	Allow appropriat	Allow appropriate loss factors				
	Density	1 kg/l (8.3 lb/gal	1 kg/l (8.3 lb/gal) (Plural component airless spray)				
	Method of Application	Hot twin feed air machine	Hot twin feed airless spray (Plural Component) or modified single feed machine				
	Drying Time						
				Overcoating i	nterval with self		
	Temperature	Touch Dry	Hard Dry	Minimum	Maximum		
	10°C (50°F)	16 hours	24 hours	24 hours	Extended ¹		
	15°C (59°F)	8 hours	16 hours	24 hours	Extended ¹		
	25°C (77°F)	5 hours	12 hours	12 hours	Extended ¹		
	40°C (104°F)	2 hours	6 hours	8 hours	Extended ¹		
	¹ See International Protective Coatings Definitions and Abbreviations All drying time data has been quoted a typical thickness of 3.5 mm						
REGULATORY DATA	Flash Point (Typical)	Part A >106°C (223	°F); Part B >106°C (223°F); Mixed >106°	C (223°F)		
	voc	0.09 lb/gal (11 g/lt) 2 g/kg	EPA Metho EU Solvent (Council Di	d 24 Emissions Directive rective 2010/75/EU)			
	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 surfaces should be assessed and treated in accordance with ISO 8504:2000.

Steel surfaces must be abrasively blast cleaned and an approved priming system applied. Blast cleaning should be carried out in accordance with the requirements on the primer technical data sheet. The general requirement is blast cleaning, to Sa2½ (ISO 8501-1:2007) or SSPCSP6 to be carried out, with a sharp angular profile being obtained. The blast profile should be a minimum of 50 microns (2 mils) for steel substrates. Primer selection is based upon the final environment to which the fire protection system will be exposed.

Interchar 212 is also suitable for application to galvanised steel substrates. Surfaces should be prepared by sweep abrasive blasting to provide a roughened surface, to a standard similar to Sa 1 (ISO 8501-1), SSPC-SP7 or NACE No. 4. Typically a profile of 15-25 microns (0.6-1.0 mils) is achieved by sweep blasting. An approved primer should be applied after sweep blasting.

APPLICATION	Mixing	 If applying Interchar 212 by modified single feed airless spray pump or trowel, it will first be necessary to thoroughly power mix a kit of Interchar 212. Individual components must have been stored for 24 hours at 21 - 27° C (70 - 80°F) and fully power agitated before mixing. For plural component spray application, both components must be maintained at a temperature of 30-34°C (86-93°F) for 24 hours (maximum 100 - 1			
		48 hours) prior to use.			
	Mix Ratio	2.49 part(s) : 1 part(s) by weight. Always mix full units.			
	Working Pot Life	15°C (59°F) 25°C (77°F) 120 minutes 90 minutes			
	Plural Component Airless Spray	Recommended	Heated plural equipment approved by International Paint		
	Airless Spray	Suitable			
	Trowel	Suitable - small areas only			
	Thinner	International GTA123 International GTA822 International GTA853	Only for pre-mix and trowel application - consult Application Guidelines		
	Cleaner	International GTA822			
	Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822.			
	Clean Up	Clean all equipment immediately after use with International GTA822. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amoun sprayed, temperature and elapsed time, including any delays.			
		All surplus materials ar accordance with appro	nd empty containers should be disposed of in priate regional regulations/legislation.		



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PRODUCT CHARACTERISTICS

The detailed Application Guidelines for Interchar epoxy coatings must be consulted prior to use. In addition it is mandatory that you make contact with International Paint to ensure that, if required, a training programme can be initiated in the application and use of this material. The Guidelines provide additional information about Interchar 212 and should be used together with the technical data sheet.

International Paint highly recommends the use of plural component equipment for Interchar 212. Alternative application methods such as modified airless spray can lead to increased usage and wastage compared to that associated with plural component methods.

When applying Interchar 212 in confined spaces ensure adequate ventilation.

The final surface finish is dependent on application method. Avoid using a mixture of application methods whenever possible.

Do not apply at steel temperatures below 5°C (41°F). This product will not cure adequately below 5° C (41°F). For maximum performance ambient curing temperatures should be above 10°C (50°F). Surface temperature must always be a minimum of 3°C (5°F) above dew point.

In common with all epoxies Interchar 212 will chalk and discolour on exterior exposure. These phenomena are not detrimental to fire proofing performance. Where a durable cosmetic finish with good gloss and colour retention is required overcoat with recommended topcoats.

Where multi-coat systems are to be used, optimum intercoat adhesion is best achieved by keeping the overcoating interval as short as possible.

Due to the high build nature of this material it may be necessary to roller areas to achieve the desired cosmetic finish.

Interchar 212 certified in accordance with the following standards:

- · BS 476 parts 20-22:1987 UK Approved up to 2 hours
- GOST Russia Approved up to 2 hours
- UL 263 (exterior listed) USA Approved up to 3 hours
- Factory Mutual (report ID 3028782)
- ENV 13381 Part 4 Mainland Europe, approved up to 2 hours
- Korean Standard F 2257 Approved up to 2 hours

Recognized by FM Approvals as a Specification Tested Product in accordance with ASTM E119

Note: VOC values quoted are based on maximum possible for the product taking into account variations due to colour differences and normal manufacturing tolerances.

Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY Interchar 212 has been tested as part of a coating system for use in fire situations in combination with a wide range of primers and topcoats.

The following primers are approved for use with Interchar 212:

Intercure 200
Intergard 251
Intergard 2575
Intergard 2575
Interseal 1052

Intercure 200HS Intergard 251HS Intergard 251HS Intergard 269

The following topcoats are approved for use with Interchar 212

Interfine 878 Interthane 870 Interthane 990SG Interfine 979 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 & AbbreviationsSurface Preparation				
	Paint Application				
	Theoretical & Practical Coverage				
	Interchar Epoxy 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 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.				
	for further advice.				
PACK SIZE	Unit Size 20 kg 50 kg	Part A Weight Pack 14.2 kg 20 litre 35.6 kg 20 litre	Part B Weight Pack 5.8 kg 6 litre 14.4 kg 20 litre		
	For availability of o	other pack sizes, conta	act International Protective Co	patings.	
	Unit Size	Part A	Part B		
	20 kg	15.98 kg	6.35 kg		
	50 kg	39.16 kg	16.18 kg		
	U.N. Shipping No.	Non Hazardous			

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.
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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 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 use 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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