

Interchar_® 212

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 20-22, GOST (Russia), GB14907 and AS1530.4 (1997).			
	Applied off site by specialist applicators Interchar 212 will achieve the required protection (e.g. 2 hours) in only one or two coats. The product has excellent corrosion performance and mechanical properties. Unlike many other products on the market Interchar 212 can provide fully fire proofed steelwork without the need to topcoat.			
	Interchar 212 is 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	(

Color	Medium Grey			
Gloss Level	Matt Textured Finish			
Volume Solids	100%			
Typical Thickness	0.08 - 0.32 inches (2 mm - 8 mm) (Dependent on protection required). Typical thickness per coat 0.14 inches (3.5 mm)			
Theoretical Coverage	1 kg of Interchar 212 will provide 1 m^{2} (based on plural component application) to 1 mm of fire protection			
Practical Coverage	Allow appropriate loss factors			
Density	8.3 lb/gal (1 kg/l) (Plural component airless spray)			
Method of Application	Hot twin feed airless spray (Plural Component) or modified single component machine			
Drying Time				

			Overcoating interval with self		
Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
50°F (10°C)	16 hours	24 hours	24 hours	Extended ¹	
59°F (15°C)	8 hours	16 hours	24 hours	Extended ¹	
77°F (25°C)	5 hours	12 hours	12 hours	Extended ¹	
104°F (40°C)	2 hours	6 hours	8 hours	Extended ¹	

¹ See International Protective Coatings Definitions & Abbreviations All drying time data has been quoted a typical thickness of 3.5 mm

REGULATORY DATA Flash Point

Part A >223°F (106°C); Part B >223°F (106°C); Mixed >223°F (106°C)

voc

0.09 lb/gal (11 g/lt) 2 g/kg EPA Method 24 EU Solvent Emissions Directive (Council Directive 1999/13/EC)

See Product Characteristics section for further details

Protective Coatings





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SURFACE PREPARATION		be coated should be clean, dry and free from contamination. Prior to paint application, all surfaces seed and treated in accordance with ISO 8504-2000.			
	carried out in accordance cleaning, to Sa2½ (ISO 8 The blast profile should b	abrasively blast cleaned and an approved priming system applied. Blast cleaning should be be with the requirements on the primer technical data sheet. The general requirement is blast 8501-1:2007) or SSPCSP6 to be carried out, with a sharp angular profile being obtained. be a minimum of 2 mils (50 microns) for steel substrates. Primer selection is based upon the ch the fire protection system will be exposed.			
	abrasive blasting to prov	suitable for application to galvanised steel substrates. Surfaces should be prepared by sweep provide a roughened surface, to a standard similar to Sa 1 (ISO 8501-1), SSPC-SP7 or NACE file of 0.6-1.0 mils (15-25 microns) is achieved by sweep blasting. An approved primer should			
APPLICATION	Mixing	If applying Interchar 212 by modified 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 70 - 80°F (21 - 27°C) and fully power agitated before mixing.			
			ray application, both components must be maintained at a 30-34°C) for 24 hours (maximum 48 hours) prior to use.		
	Mix Ratio	2.49 part(s) : 1 part(s) by weight. Always mix full units.			
	Working Pot Life	59°F (15°C) 77°F (2	5°C)		
		120 minutes 90 minu	ites		
	Plural component airless spray	Recommended			
	Airless Spray	Suitable			
	Trowel	Suitable - Small areas or			
	Thinner	International GTA123 International GTA822 International GTA853	Only for pre-mix and hand application - consult Application Manual		
	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	practice to periodically flu	ediately after use with International GTA822. It is good working ush out spray equipment during the course of the working day. Il depend upon amount sprayed, temperature and elapsed time,		
		All surplus materials and appropriate regional regu	empty containers should be disposed of in accordance with lations/legislation		

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PRODUCT CHARACTERISTICS

The detailed Recommended Working Procedures 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 41°F (5°C). This product will not cure adequately below 41°F (5°C). For maximum performance ambient curing temperatures should be above 50°F (10°C). Surface temperature must always be a minimum of 5°F (3°C) 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 requiring a 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 only
- Factory Mutual (report ID 3028782)
- ENV 13381 Part 4 Mainland Europe
- · 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 color 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 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	Intercure 200HS
Intergard 251	Intergard 269
Intergard 276	Interzinc 52

The following topcoats are approved for use with Interchar 212:

Interfine 878	Interfine 979
Interthane 870	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 Epoxy Working Procedures

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	Part A Weight	Pack	Part B Weight	Pack
	20 kg	14.2 kg	20 liter	5.8 kg	6 liter
	50 kg	35.6 kg	20 liter	14.4 kg	20 liter
	For availability of other p	oack sizes conta	ct Internationa	Protective Coating	S
SHIPPING WEIGHT	Unit Size	Pa	art 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 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.			

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 law) any loss or damage arising out of the use of the product. 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 Intermational Paint representative that this data sheet is current prior to using the product.

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