International

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 in accordance with UL 263 / UL 2431 Classification Category 1-A exterior listed. BS 476 Parts 20-22, GOST (Russia), EAD 350402-00-1106, Korean Standard F 2257, and Australian Standards AS1530.4 (2014) and AS 4100.

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

Medium Grey
Matt Textured Finish
100%
2 mm - 8 mm (0.08 - 0.32 inches) (Dependent on protection required). Typical thickness per coat 3.5 mm (0.14 inches)
1 kg of Interchar 212 will provide 1 mm of fire protection to 1 m² (based on plural component application)
Allow appropriate loss factors
1 kg/l (8.3 lb/gal) (Plural component airless spray)
Hot twin feed airless spray (Plural Component) or modified single feed machine

Drying Time	

Overcoating interval with se	Overcoating	interval	with	se
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Temperature	Touch Dry	Hard Dry	Minimum	Maximum
10°C (50°F)	8 hours	24 hours	4 hours	*
20°C (68°F)	5 hours	18 hours	3 hours	*
40°C (104°F)	2 hours	6 hours	2 hours	*
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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/gai (11 g/lt)	EPA Method 24
	0/1	ELL California Contact

EU Solvent Emissions Directive 2 g/kg

(Council Directive 2010/75/EU)

See Product Characteristics section for further details

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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°

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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

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)

90 minutes 120 minutes

Plural Component Airless Spray

Recommended Heated plural equipment approved by AkzoNobel

Airless Spray Suitable

Suitable - small areas Trowel

Thinner International GTA123 Only for pre-mix and trowel application - consult

International GTA822 Interchar 212 Application Manual

International GTA853

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 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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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
- EAD 350402-00-1106 Mainland Europe, assessed up to 2 hours (ETA-1-/0470)
- Korean Standard F 2257 Approved up to 2 hours
- Australian Standards AS 1530.4-2014 and AS 4100

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 Intercure 200HS
Intergard 251 Intergard 269
Intergard 2575 Interseal 1052

The following topcoats are approved for use with Interchar 212

Interfine 878 Interfine 979 Interthane 870 Interthane 990

Interthane 990SG

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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 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.

If in doubt regarding the suitability of use of this product, consult AkzoNobel for further advice.

PACK SIZE	Unit Size	Part	Α	Part E	}		
		Weight	Pack	Weight	Pack		
	20 kg	14.2 kg	20 litre	5.8 kg	6 litre		
	50 kg	35.6 kg	20 litre	14.4 kg	20 litre		
	For availability of c	other pack siz	zes, contact	AkzoNobel.			

SHIPPING WEIGHT	Unit Size	Part A	Part B	
(TYPICAL)	20 kg	15.98 kg	6.35 kg	
	50 kg	39.16 kg	16.18 kg	
	U.N. Shipping No. No.	on Hazardous		

STORAGE	Shelf Life	18 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

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 affect to 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.

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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