Intergard_® 452



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PRODUCT DESCRIPTION	Intergard 452 is a two component, high build epoxy intermediate.				
	Pigmented with micaceous iron oxide to comply with the requirements of BS5493:1977				

INTENDED USES

ES To provide excellent barrier protection for exposed steelwork.

Improved long-term overcoating by other two pack epoxies due to surface profile provided by the MIO pigmentation.

Excellent abrasion resistance and durability in minimum number of coats.

PRACTICAL	Colour	Silver Grey, Natural Grey						
INTERGARD 452	Gloss Level	Matt						
	Volume Solids	58%						
	Typical Thickness	75-155 microns (3-6.2 mils) dry equivalent to 129-267 microns (5.2-10.7 mils) wet						
	Theoretical Coverage	5.80 m ² /litre at 100 microns d.f.t and stated volume solids 233 sq.ft/US gallon at 4 mils d.f.t and stated volume solids						
	Practical Coverage	Allow appropriate loss factors						
	Method of Application	Airless Spray,Brush, Roller						
	Drying Time							
			g Interval with ded topcoats					
	Temperature	Touch Dry	Hard Dry	Minimum	Maximum			
	10°C (50°F)	6 hours	24 hours	24 hours	Extended ¹			
	25°C (77°F)	2 hours	8 hours	16 hours	Extended ¹			
	35°C (95°F)	2 hours	4 hours	12 hours	Extended ¹			
	¹ See International Protective Coatings Definitions and Abbreviations							
REGULATORY DATA	Flash Point (Typical)	Part A 23°C (73°F);Part B 23°C (73°F);Mixed 23°C (73°F)						
	Product Weight	1.5 kg/l (12.5 lb/gal)						
	VOC	3.75 lb/gal (450 g	3.75 lb/gal (450 g/lt) EPA Method 24					

See Product Characteristics section for further details

Protective Coatings

AkzoNobel





Epoxy SURFACE PREPARATION

Primed Surfaces

Intergard 452 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Intergard 452 must be applied within the overcoating intervals specified (consult the relevant product data sheet).

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g.Sa2½ (ISO 8501-1:2007) or SSPC-SP10, Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed with the full anti-corrosive system prior to the application of Intergard 452.

Zinc Primed Surfaces

Ensure the surface of the primer is clean, dry and free from contamination and zinc salts before application of Intergard 452. Ensure the zinc primer is fully cured before over coating.

APPLICATION	Mixing	 Material is supplied in two containers as a unit. Always mix a complete uni in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified. (1) Agitate Base (Part A) with a power agitator. (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator. 				
	Mix Ratio	6.00part(s):1.00part(s)by volume				
	Working Pot Life	10°C (50°F) 8 hours	25°C (77 4 hours	°F)	35°C (95°F) 2 hours	
	Airless Spray	Recommended	b	Tota	Range 0.45-0.58 mm (18-23 thou) al output fluid pressure at spray tip not less n 176 kg/cm² (2503 p.s.i.)	
	Air Spray (Pressure Pot)	Not recommen	ded			
	Brush	Suitable		Small area only. Typically 50-75 microns (2.0-3.0 mils) can be achieved		
	Roller	Suitable		Small area only. Typically 50-75 microns (2.0-3.0 mils) can be achieved		
	Thinner	International GTA220		Do not thin more than allowed by local environmental legislation		
	Cleaner	International GTA822				
	Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA822. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.				
	Clean Up	Clean all equipment immediately after use with International GTA822. It is good working practice to periodically clean equipment during the course of the working day. Frequency of cleaning will depend upon amount used, temperature and elapsed time, including any delays.				
					ty containers should be disposed of in regional regulations/legislation.	

Intergard_® 452



Epoxy PRODUCT CHARACTERISTICS

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 Intergard 452 will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance. The actual rate of chalking will depend on climatic conditions and will normally be limited to a thin surface layer.

Products with high micaceous iron oxide levels tend to produce films which are relatively dark colours, consequently with some colours of thin film finishes two coats may be needed to give good coverage, especially with brush and roller application.

This product is frequently used as a 'travel coat' prior to final overcoating on site. To ensure best extended overcoating properties ensure over-application does not occur and that the surface is fully cleaned of any contamination which may be present in the surface texture due to the coarse nature of the micaceous iron oxide pigmentation.

Aged overcoating is acheived due to the physical roughness imparted to the surface by the micaceous iron oxide. Over-application of Intergard 452 can result in a glossy resin rich surface layer which may require abrasion before satisfactory adhesion and overcoating can be acheived.

Absolute measured adhesion of topcoats to aged Intergard 452 is less than that to fresh material, however, it is adequate for the specified end use.

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.

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 The following primers/intermediates are recommended for Intergard 452:

Interzinc 22 Interzinc 52 Interzinc 72

For other suitable primers/intermediates/topcoats, consult International Protective Coatings.

Recommended topcoats:

Intergard 740 Interthane 870 Interthane 990

For other suitable topcoats, consult International Protective Coatings.





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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					
	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 Part B					

PACK SIZE	Unit Size	Part A Vol Pack	Part B Vol Pa	ack	
	20 litre	17.14 litre 20 litre	2.86 litre 5	litre	
	For availability of	other pack sizes, contact	International Prot	ective Coatings.	
	Unit Size	Part A	Part B		
(TYPICAL)	20 litre	29.7 kg	3.5 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

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 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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