K. International. Protective Coatings

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Product Description	A low VOC, high solids, high build, two component epoxy coating. Available with conventional pigmentation, or alternatively can be pigmented with micaceous iron oxide to provide enhanced overcoating properties.				
Intended Uses	For use as a high build anti-corrosive coating sy structures, petrochemic	ystems in a wide	range of envir	onments includ	or a range of ing offshore
	Suitable for use in both maintenance and new construction situations as part of an anti-corrosive coating system.				
	The micaceous iron oxi facilitating application is overcoating on site.	ide variant impr	roves long term on shop, prior to	overcoating pro o shipping, with	operties, bette final
Practical	Colour	Light grey MI	O and a selecte	d range of color	urs
Information for Intergard 475 HS	Gloss Level	Matt			
	Volume Solids	80%			
	Typical Thickness	125-200 microns (5-8 mils) dry equivalent to 156-250 microns (6.3-10.0 mils) wet			
	Theoretical Coverage	6.40 m²/litre at 125 microns d.f.t and stated volume solids 257 sq.ft/US gallon at 5 mils d.f.t and stated volume solids			
	Practical Coverage	Allow appropriate loss factors			
	Method of Application	lethod of Application Airless spray, Air spray, Brush, Roller			
	Drying Time				g Interval with ded topcoats
	Temperature	Touch Dry	Hard Dry	Minimum	Maximum
	5°C (41°F)	90 minutes	16 hours	16 hours	Extended*
	15°C (59°F)	75 minutes	10 hours	10 hours	Extended*
	25°C (77°F)▲ 40°C (104°F)▲	60 minutes N/A	5 hours N/A	5 hours N/A	Extended* N/A
	 For curing at elevate See Product Charace * See International Product 	cteristics for deta	ails.		
Regulatory Data	Flash Point	Base (Part A) 34°C (93°F)	C/A (Pa 31°C (8		Mixed 3°C (91°F)
	Product Weight	2.1 kg/l (17.5	lb/gal)		
	voc	160 g/l	Uk	K - PG6/23(92),	Appendix 3
775	ECOTECH	1.46 lb/gal (1	75 g/l) US	A - EPA Metho	1 24
	Ecotech is an initiative by International Protective Coatings a world leader in coating technolog to promote the use of environmentally sensitive products across the globe.				

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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 8504:1992.

Primed Surfaces

Intergard 475 HS should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination, and Intergard 475 HS 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. $Sa2\frac{1}{2}$ (ISO 8501-1:1988) or SSPC-SP6, Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Intergard 475 HS.

Zinc Primed Surfaces

Ensure that the surface of the primer is clean, dry and free from contamination and zinc salts before application of Intergard 475 HS. Ensure zinc primers are fully cured before overcoating.

Application	Mixing	Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.			
		 Agitate Base (Part A) with a power agitator. Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator. 			
	Mix Ratio	3 parts : 1 part by volume			
	Working Pot Life	10°C (50°F) 15°C (59°F) 25°C (77°F) 40°C (104°F) 60 minutes 60 minutes 60 minutes N/A			
	Airless Spray	Recommended - Tip range 0.53-0.63 mm (21-25 thou) - Total output fluid pressure at spray tip not less than 190 kg/cm ² (2,700 p.s.i.)			
	Air Spray (Pressure Pot)	Recommended Gun DeVilbiss MBC or JGA Air Cap 704 or 765 Fluid Tip E			
	Brush	Suitable Typically 75 microns (3 mils) can be achieved			
	Roller	Suitable Typically 75 microns (3 mils) can be achieved			
	Thinner	International GTA007 Do not thin more than allowed by local environmental legislation.			
	Cleaner	International GTA822 (or GTA415)			
	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 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 Characteristics Intergard 475 HS is primarily designed for use as a high build barrier coat to impart barrier protection to a coating system. It is recommended that it should be overcoated with a durable finish from the Interfine or Interthane range when appearance is important.

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. Application by conventional air spray may require a multiple cross spray pattern to attain maximum film build. Low or high temperatures may require specific application techniques to achieve maximum film build.

When applying Intergard 475 HS by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

Surface temperature must always be a minimum of 3°C (5°F) above dew point.

If applying Intergard 475 HS in confined spaces ensure adequate ventilation.

Exposure to unacceptably low temperatures and/or high humidities during, or immediately after, application may result in incomplete cure and surface contamination that could jeopardise subsequent intercoat adhesion.

Elevated Temperature Curing

An alternative curing agent is available for applications at temperatures greater than 25° C (77°F).

			Overcoating Interval with recommended topcoats		
Temperature	Touch Dry	Hard Dry	Minimum	Maximum	
25°C (77°F) 40°C (104°F)	90 minutes 60 minutes	6 hours 2 hours	6 hours 2 hours	Extended* Extended*	

* See International Protective Coatings Definitions and Abbreviations

Interchanging standard and elevated temperature curing agents during application to a specific structure will give rise to an observable colour change due to the difference in the yellowing/discolouration process common to all epoxies on exposure to UV light.

In common with all epoxies Intergard 475 HS will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Intergard 475 HS is not designed for continuous water immersion.

The micaceous iron oxide variant of 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.

When applying Intergard 475 HS at temperatures less than 15°C (59°F) or wet film thicknesses of 150 microns (6 mils) or less, addition of around 5% International GTA007 thinners will improve film appearance, sprayability and aid film thickness control.

Intergard 475 HS is designed for use over correctly primed steel. Suitable primers are:

Intercure 200 Intergard 251 Intergard 269 Intergard 270

Interzinc 12 (mist coat or tie coat recommended)* Interzinc 22 (mist coat or tie coat recommended)* Interzinc 42 Interzinc 52 Intezinc 280 Interzinc 315

Suitable topcoats are:

Intercryl 530 Interfine 629 HS Intergard 475 HS Intergard 740 Interthane 990

For alternative primers and finishes, consult International Protective Coatings.

* See relevant product data sheet for details

Systems

Compatibility

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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 sections of the International Protective Coatings data manual:				
		Definitions & Abbreviation	IS		
		Surface Preparation			
		Paint Application			
		Theoretical & Practical Coverage			
	Individual copies of these information sections are available upon request.				
Safety Precautions	s 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	20 litre unit	Intergard 475 HS Base Intergard 475 HS Curing Agent	15 litres in a 20 litre container 5 litres in a 5 litre container		
1	5 gallon unit	Intergard 475 HS Base Intergard 475 HS Curing Agent	3 gallons in a 5 gallon container 1 gallon in a 1 gallon container		
	For availability of other pack sizes contact International Protective Coatings				

Shipping Weight	U.N. Shipping No	o. 1263
	20 litre unit	35.4 kg (78.0 lb) Base (Part A) 9.3 kg (20.5 lb) Curing Agent (Part B)
	5 gallon unit	25.9 kg (57.3 lb) Base (Part A) 3.8 kg (8.4 lb) Curing Agent (Part B)
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.

Disclaimer

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Any warranty, if given, or specific Terms & Conditions of Sale are contained in International's Terms & Conditions of Sale, a copy of which can be obtained on request. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or 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 whatsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

It is the user's responsibility to check that this sheet is current prior to using the product. Issue date: 1st June 1997

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