

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 epoxy coating to improve barrier protection for a range of anti-corrosive coating systems in a wide range of environments including offshore structures, petrochemical plants, pulp and paper mills and bridges. Suitable for use in both maintenance and new construction situations as part of an anti-corrosive coating system. The micaceous iron oxide variant improves long term overcoating properties, better facilitating application in the fabrication shop, prior to shipping, with final overcoating on site.

PRACTICAL INFORMATION FOR INTERGARD 475HS

Color Light gray MIO and a selected range of colors

Gloss Level Matte **Volume Solids** 80%

Typical Thickness 4-8 mils (100-200 microns) dry equivalent to 5-10 mils (125-250 microns) wet

257 sq.ft/US gallon at 5 mils d.f.t and stated volume solids **Theoretical Coverage** 6.40 m²/liter at 125 microns d.f.t and stated volume solids

Practical Coverage Allow appropriate loss factors

Method of Application Airless Spray, Air Spray, Brush, Roller

Drying Time

Overcoating Interval with recommended topcoats

Temperature	Touch Dry	Hard Dry	Minimum	Maximum
23°F (-5°C)	150 minutes	48 hours	48 hours	Extended ¹
41°F (5°C)	90 minutes	16 hours	16 hours	Extended ¹
59°F (15°C)	75 minutes	10 hours	10 hours	Extended ¹
77°F (25°C)	60 minutes	5 hours	5 hours	Extended ¹

¹ See International Protective Coatings Definitions & Abbreviations

Maximum overcoating intervals are shorter when using polysiloxane topcoats. Consult International Protective Coatings for further details.

For curing at elevated temperatures an alternative curing agent is available. See Product Characteristics for details.

REGULATORY DATA Flash Point Part A 93°F (34°C); Part B 88°F (31°C); Mixed 91°F (33°C)

Product Weight 17.5 lb/gal (2.10 kg/l)

VOC 1.72 lb/gal (207 g/lt) EPA Method 24

EU Solvent Emissions Directive 92 g/kg

(Council Directive 1999/13/EC)

See Product Characteristics section for further details

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Epoxy

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.

Primed Surfaces

Intergard 475HS should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination, and Intergard 475HS 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. SSPC-SP6 or Sa2½ (ISO 8501 -1:2007), Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Intergard 475HS.

Zinc Primed Surfaces

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

(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 3 part(s): 1 part(s) by volume

Working Pot Life 23°F (-5°C) 41°F (5°C) 59°F (15°C) 77°F (25°C)

3 hours 3 hours 2.5 hours 2 hours

Airless Spray Recommended Tip Range 21-25 thou (0.53-0.63 mm)

Total output fluid pressure at spray tip not less than 2702 psi

(190 kg/cm²)

Air Spray Recommended Gun DeVilbiss MBC or JGA

(Pressure Pot) Air Cap 704 or 765

Fluid Tip E

Brush Suitable Typically 3.0 mils (75 microns) can be achieved

Roller Suitable Typically 3.0 mils (75 microns) can be achieved

Thinner International GTA007 Do not thin more than allowed by local environmental

legislation

Cleaner International GTA822 (or International 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 475HS 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 air spray may require a multiple cross spray pattern to attain maximum film build. Lower or high temperatures may require specific application techniques to achieve maximum film build.

When applying Intergard 475HS 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 5°F (3°C) above dew point. When applying Intergard 475HS 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 jeopardize subsequent intercoat adhesion.

Elevated Temperature Curing

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

			Overcoating Interval with recommended topcoats		
<u>Temperature</u>	Touch Dry	Hard Dry	<u>Minimum</u>	<u>Maximum</u>	
77°F (25°C) 104°F (40°C)	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 color change due to the difference in the yellowing/discoloration process common to all epoxies on exposure to UV light. In common with all epoxies, Intergard 475HS will chalk and discolor on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

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

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 color and normal manufacturing tolerances.

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

SYSTEMS COMPATIBILITY

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

Intercure 200 Interzinc 22 (mist coat or tie coat recommended)*
Intergard 251 Interzinc 315

Intergard 251 Interzinc 31: Intergard 269 Interzinc 52

Suitable topcoats are:

Intergard 740 Interfine 629HS Interthane 990 Intergard 475HS

For alternative primers and finishes, consult International Protective Coatings.

* See relevant product data sheet for details.



Epoxy

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 Vol	N Pack	Part B Vol	Pack				
	20 liter	15 liter	20 liter	5 liter	5 liter				
	5 US gal	3 US gal	5 US gal	1 US gal	1 US gal				
	For availability of other pack sizes contact International Protective Coatings								
SHIPPING WEIGHT	Unit Size	Pa	art A	Part B					
20 liter		35.4 kg		9.3 kg					
	5 US gal	57	'.1 lb	8.4 lb					
STORAGE	Shelf Life		•		, shaded conditions away from sources				

Disclaimer

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 on 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 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 International Paint 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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