

PRODUCT DESCRIPTION



A two component epoxy sealer coat, pigmented with micaceous iron oxide. Formulated on proprietary polymer technology, which provides rapid cure and overcoating, even at low temperatures.

INTENDED USES

To provide efficient sealing of zinc silicate primers in order to prevent pinholing of subsequent topcoats. Can also be used for sealing zinc and aluminium metal spray either as a single coat system or prior to overcoating with a suitable topcoat where required.

Intergard 405 is suitable for use as part of a coating system in a range of highly corrosive environments, including offshore structures, petrochemical and chemical plants, bridges, refineries, pulp and paper plants and power stations.

PRACTICAL INFORMATION FOR INTERGARD 405

Colour	Red Oxide
Gloss Level	Matt
Volume Solids	38%
Typical Thickness	25 microns (1 mils) dry equivalent to 66 microns (2.6 mils) wet
Theoretical Coverage	15.20 m²/litre at 25 microns d.f.t and stated volume solids 610 sq.ft/US gallon at 1 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Air Spray, Brush, Rolle

Drying Time

recommended topcoats			
Minimum Maximum			
4 hours	Extended ¹		
2 hours	Extended ¹		

Overcoating Interval with

Temperature	Touch Dry	Hard Dry	Minimum	Maximum
5°C (41°F)	30 minutes	4 hours	4 hours	Extended ¹
15°C (59°F)	20 minutes	2 hours	2 hours	Extended ¹
25°C (77°F)	15 minutes	90 minutes	90 minutes	Extended ¹
40°C (104°F)	10 minutes	45 minutes	45 minutes	Extended ¹

See International Protective Coatings Definitions and Abbreviations

REGULATORY DATA

Flash Point (Typical)	Part A 25°C (77°F); Part B 24°C (75°F); Mixed 24°C (75°F)
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Product Weight 1.30 kg/l (10.8 lb/gal)

406 g/kg **EU Solvent Emissions Directive** VOC (Council Directive 1999/13/EC)

See Product Characteristics section for further details



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 405 should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and Intergard 405 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-SP6, Abrasive Blasting, or SSPC-SP11, Power Tool Cleaning) and patch primed prior to the application of Intergard 405.

Metallic Zinc Primed Surfaces

In the case of zinc primers, where necessary, remove weld spatter, smooth weld seams and sharp edges and blast clean welds and damaged primer to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. The shop primer or other primer surface should be dry and free of all contamination (oil, grease, salt etc) and overcoated with Intergard 405 within the overcoating intervals specified for the primer (consult the relevant product data sheet).

Ensure that the zinc primer has fully cured and is clean, dry and free from zinc salts prior to overcoating.

	TION	

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	1.5 part(s) : 1	1.5 part(s) : 1 part(s) by volume			
Working Pot Life	5°C (41°F)) 25°C (77°F	F) 40°C (104°F)	
-	16 hours	10 hours	5 hours	3 hours	
Airless Spray	Recommend	T	Tip Range 0.38-0.53 mm (15-21 thou) Total output fluid pressure at spray tip not less than 127 kg/cm² (1806 p.s.i.)		
Air Spray (Pressure Pot)	Recommende	A	iun ir Cap Iuid Tip	DeVilbiss MBC or JGA 704 or 765 E	
Air Spray (Conventional)	Recommende	ed U	Use suitable proprietary equipment		
Brush	Suitable - sma	all areas			
Roller	Suitable - sma	Suitable - small areas only			
Thinner	International (Do not thin more than allowed by local environmental legislation		
Cleaner	International (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.

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.

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

Clean Up

X.International

Epoxy PRODUCT CHARACTERISTICS

Intergard 405 is formulated at a viscosity suitable for penetration and efficient sealing of freshly applied zinc silicates such as Interzinc 12 and Interzinc 22. It is also suitable as a travel or weathering coat for zinc epoxy primers.

This product must only be thinned using recommended International GTA220 thinners. The use of alternative thinners, particularly those containing ketones, can severely inhibit the curing mechanism of the coating.

Best results will be achieved at temperatures above 0°C (32°F).

Over-application will result in sagging as Intergard 405 has been designed to give maximum flow characteristics.

Excessive film thickness may lead to splitting of the film when overcoated with high build systems.

Intergard 405 is not designed as a blast holding primer and when used in such circumstances is unlikely to give long term corrosion protection. Intergard 269, Intergard 251 or Intercure 200 are preferred alternatives in these circumstances.

Intergard 405 has been specifically designed to provide superior properties of curing flow in order to provide efficient sealing of zinc silicate primers at temperatures less than 10°C (50°F).

Intergard 405 can also be used over zinc or aluminium metal spray to seal off any porosity and ensure maximum corrosion life.

When applying Intergard 405 in confined spaces ensure adequate ventilation.

In common with all epoxies Intergard 405 will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

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.

Absolute measured adhesion of topcoats to aged Intergard 405 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.

SYSTEMS COMPATIBILITY

Intergard 405 is specifically designed for use over the following zinc silicate primers:

Interzinc 12 Interzinc 22

It can also be used over the following zinc epoxy primers:

InterH2O 280 Interzinc 315 Interzinc 42 Interzinc 52 Interzinc 72

The following topcoats are recommended for Intergard 405:

Intercure 420 Intergard 740 InterH2O 401 Interseal 670HS Interfine 629HS Interthane 990 Intergard 400 Interzone 505 Intergard 410 Interzone 954 Intergard 475HS

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

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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 Pack	Part B Vol Pa	ack
	20 litre	12 litre 20 litre	8 litre 10) litre
	For availability of o	ther pack sizes, contact I	nternational Prote	ective Coatings.
SHIPPING WEIGHT	Unit Size	Part A	Part B	
(TYPICAL)	20 litre	20.8 kg	8.6 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 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 filtenses 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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