

PRODUCT DESCRIPTION

A two component epoxy anti-corrosive primer pigmented with zinc phosphate.

INTENDED USES

For use on properly prepared surfaces in both new construction situations and as an industrial maintenance primer for a wide range of anti-corrosive coatings systems for use in the offshore, petrochemical, chemical, pulp and paper and bridge industries.

The fast drying and handling properties, together with extended overcoatability, make this an excellent primer for factory application prior to full system application on site. Intergard 251 provides good abrasion resistance which minimizes mechanical damage in transit between the factory and site.

PRACTICAL INFORMATION FOR INTERGARD 251

Color	Buff, Gray, Red Oxide
Gloss Level	Matte
Volume Solids	63% ± 2%
Typical Thickness	2-3 mils (50-75 microns) dry equivalent to 3.2-4.8 mils (79-119 microns) wet
Theoretical Coverage	337 sq.ft/US gallon at 3 mils d.f.t and stated volume solids 8.40 m ² /liter at 75 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Air Spray, Airless Spray, Brush, Roller

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
50°F (10°C)	2 hours	7 hours	7 hours	12 months ¹
59°F (15°C)	1 hour	5 hours	5 hours	12 months ¹
77°F (25°C)	45 minutes	3 hours	3 hours	12 months ¹
104°F (40°C)	30 minutes	2 hours	2 hours	12 months ¹

¹ Maximum overcoating intervals are shorter when using polysiloxane topcoats. Consult International Protective Coatings for further details.

REGULATORY DATA

Flash Point Part A 75°F (24°C); Part B 81°F (27°C); Mixed 75°F (24°C)

Product Weight 11.5 lb/gal (1.38 kg/l)

VOC 3.25 lb/gal (390 g/l)
293 g/kg

EPA Method 24
EU Solvent Emissions Directive
(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.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning

Abrasive blast clean to a minimum of SSPC-SP6 or Sa2½ (ISO 8501-1:2007). If oxidation has occurred between blasting and application of Intergard 251, the surface should be reblasted to the specified visual standard.

Surface defects revealed by the blast cleaning process, should be ground, filled, or treated in the appropriate manner.

Surface profile must be a minimum of 2 mils (50 microns).

Shop Primed Steelwork

Weld seams and damaged areas should be cleaned to a minimum St3 (ISO 8501-1:2007) or SSPC-SP3. Optimum performance will be achieved with blasting to Sa2½ (ISO 8501-1:2007) or SSPC-SP6; where this is not practical, hand preparation to SSPC-SP11 is recommended.

If the shop primer shows extensive or widely scattered breakdown overall sweep blasting may be necessary.

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	4 part(s) : 1 part(s) by volume			
Working Pot Life	50°F (10°C) 10 hours	59°F (15°C) 8 hours	77°F (25°C) 6 hours	104°F (40°C) 3 hours
Airless Spray	Recommended	Tip Range 15-21 thou (0.38-0.53 mm) Total output fluid pressure at spray tip not less than 2204 psi (155 kg/cm²)		
Air Spray (Pressure Pot)	Recommended	Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E	
Brush	Suitable	Typically 1.6-2.0 mils (40-50 microns) can be achieved		
Roller	Suitable	Typically 1.6-2.0 mils (40-50 microns) can be achieved		
Thinner	International GTA220 (or International GTA415)	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			

**PRODUCT
CHARACTERISTICS**

Intergard 251 is preferred for use with systems for chemical environments where zinc based materials can be subject to attack in both acidic and alkaline conditions.

The maximum overcoating interval will be dependent upon the integrity of the exposed film. A film of 3 mils (75 microns) dry film thickness will normally be overcoatable after 6-12 months exposure (depending upon the corrosivity of the environment) provided it is adequately cleaned and any areas of mechanical damage repaired.

Over-application should be avoided as thick films will not be as good a substrate for topcoat adhesion after ageing as those at the specified thickness. When using as a blast holding primer avoid over-application as thick films may suffer from cohesive film splitting if subsequent coats are also over-applied.

Over-application of Intergard 251 will extend both the minimum overcoating periods and handling times, and may be detrimental to long term overcoating properties.

When applying Intergard 251 by brush or roller, it may be necessary to apply multiple coats to achieve the total specified system dry film thickness.

This product will not cure adequately below 41°F (5°C). For maximum performance, curing temperatures should be above 50°F (10°C).

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

In common with all epoxies, Intergard 251 will chalk and discolor on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Intergard 251 is not designed for continuous water immersion.

Where a durable cosmetic finish with good gloss and color retention is required, overcoat with recommended topcoats.

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 251 is designed for application to correctly prepared steel. It is possible to apply over approved prefabrication primers. Details of these can be obtained from International Protective Coatings.

The following primers are recommended for Intergard 251:

Interzinc 22 (mist coat or tie coat recommended)*
Interzinc 52
InterH2O 280

The following topcoats are recommended for Intergard 251:

Intercure 200HS	Intergard 345
Intercure 420	Intergard 475HS
Interfine 629HS	Intergard 740
Interfine 878	Interseal 670HS
Interfine 979	Interthane 870
Intergard 251	Interthane 990

Alternative topcoats are also available, consult International Protective Coatings.

* See relevant product data sheet for details.

**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	
		Vol	Pack	Vol	Pack
	20 liter	16 liter	20 liter	4 liter	5 liter
	5 US gal	4 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	Part A		Part B	
	20 liter	26 kg		4.2 kg	
	5 US gal	54.2 lb		8.8 lb	
STORAGE	Shelf Life	12 months minimum at 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.			

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 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 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.

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