# Intergard<sub>®</sub> 251HS



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PRODUCT

DESCRIPTION

A two component, low VOC, high solids, fast curing epoxy primer containing zinc phosphate anti-corrosive pigmentation.

Suitable for overcoating within 2 hours under common climatic conditions. Early handling properties make this an ideal primer for speeding up production and throughput.

**INTENDED USES** For use on a range of industrial facilities and infrastructure assets where film build and fast through-put are priorities.

This primer, in combination with approved topcoats, offers optimized anticorrosive protection in various atmospheric environments.

PRACTICAL	Color	Red, Gray, Bu	ıff				
INFORMATION FOR INTERGARD 251HS	Gloss Level	Matte	Matte				
	Volume Solids	75% ± 2%	75% ± 2%				
	Typical Thickness	3-8 mils (75-2 wet	00 microns) dry eq	uivalent to 4-10.7 mils (	100-267 microns)		
	Theoretical Coverage		401 sq.ft/US gallon at 3 mils d.f.t and stated volume 10 m²/liter at 75 microns d.f.t and stated volume soli				
	Practical Coverage	Allow appropr	Allow appropriate loss factors Airless Spray,Air Spray,Brush, Roller Overcoating Interval with recommended topcoats				
	Method of Application	Airless Spray,					
	Drying Time						
	Temperature	Touch Dry	Hard Dry	recommenae Minimum	a topcoats Maximum		
			_				
	41°F (5°C)	2 hours	5.5 hours	4 hours	Extended <sup>1</sup>		
	59°F (15°C)	60 minutes	3.5 hours	3 hours	Extended <sup>1</sup>		
	77°F (25°C)	30 minutes	2.25 hours	2 hours	Extended <sup>1</sup>		
	104°F (40°C)	15 minutes	60 minutes	60 minutes	Extended <sup>1</sup>		
	<sup>1</sup> See International Protective Coatings Definitions & Abbreviations Maximum overcoating intervals are shorter when using polysiloxane topcoats. Consult International Protective Coatings for further details.						
REGULATORY DATA	Flash Point (Typical)	Part A 88°F (31°C); P					
	Product Weight	13.3 lb/gal (1.59 kg/l)					
	VOC	2.02 lb/gal (243 g/lt)	E	PA Method 24			
		157 g/kg					
		262 g/lt (2.18 lb/US G	al) as supplied und	der Korea Clean Air Co	servation Act		
	Can Draduct Characteristics contian for further details						

See Product Characteristics section for further details

## **Protective Coatings**

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# AkzoNobel

# Intergard<sub>®</sub> 251HS

### Epoxy

SURFACE PREPARATION All steel 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.

**X**International

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

#### Steel

Abrasive blast clean to a minimum of Sa2½ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of Intergard 251HS the surface should be re-blasted to the specified visual standard. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

A surface profile of 1.6-3.0 mils (40-75 microns) is recommended.

#### **Shop Primed Steelwork**

Weld seams and damaged areas should be abrasive blast cleaned to a minimum SSPC SP6 or Sa2<sup>1</sup>/<sub>2</sub> standard (ISO 8501-1:2007). Where this is not practical, preparation to SSPC SP11 is acceptable.

APPLICATION	Mixing	<ul> <li>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.</li> <li>(1) Agitate Base (Part A) with a power agitator.</li> <li>(2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.</li> </ul>				
	Mix Ratio	3 part(s) : 1 part(s) by volume				
	Working Pot Life	41°F (5°C) 90 minutes	59°F (15°C 60 minutes	, , ,	104°F (40°C) 30 minutes	
	Airless Spray	Recommended		Tip Range 17-21 thou (0.43-0.53 mm) Total output fluid pressure at spray tip not less than 2204 psi (155 kg/cm²)		
	Air Spray (Pressure Pot)	Suitable		Gun Air Cap Fluid Tip	DeVilbiss MBC or JGA 704 or 765 E	
	Brush	Suitable			small areas and repairs, multiple coats o achieve the required dry film thickness.	
	Roller	Suitable			small areas and repairs, multiple coats o achieve the required dry film thickness.	
	Thinner	International GTA220		Do not thin more than allowed by local environmental legislation		
	Cleaner	International GTA822		Choice of cleaner may be subject to local legislation. Please consult your local representative for specific advice.		
	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 wi freshly mixed units.			spray equipment. Thoroughly flush all ts of paint have been mixed they should	
	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.				
				npty containers shou ions/legislation.	Id be disposed of in accordance with	

# Intergard<sub>®</sub> 251HS



### Epoxy

PRODUCT **CHARACTERISTICS** 

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

Apply in good climatic conditions. The temperature of the surface to be coated must be at least 5°F (3° C) above the dew point.

Over-application of Intergard 251HS will extend both the minimum overcoating periods and handling times.

When applying Intergard 251HS by brush or roller, it may be necessary to apply multiple coats to achieve the required film build.

In common with all epoxies, Intergard 251HS will chalk and discolor on exterior exposure. Where a durable cosmetic finish with good gloss and color retention is required, overcoat with recommended topcoats.

Intergard 251HS is not designed for continuous water immersion.

An alternative curing agent to improve application properties in tropical climates is also available.

The following drying times and overcoating intervals apply when the tropical climate curing agent is used:

			Overcoating Interval with recommended topcoats		
<u>Temperature</u>	Touch Dry	Hard Dry	<u>Minimum</u>	<u>Maximum</u>	
41°F (5°C) 59°F (15°C) 77°F (25°C) 104°F (40°C)	5 hours 4 hours 90 minutes 45 minutes	16 hours 6 hours 4 hours 2 hours	16 hours 6 hours 4 hours 2 hours	Extended <sup>1</sup> Extended <sup>1</sup> Extended <sup>1</sup> Extended <sup>1</sup>	

<sup>1</sup> See International Protective Coatings Definitions and Abbreviations.

Pot Life:

41°F (5°C)	59°F (15°C)	77°F (25°C)	104ºF (40ºC)
2 hours	2 hours	90 minutes	60 minutes

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 affect VOC values determined using EPA Method 24.

SYSTEMS Intergard 251HS is normally applied directly to steel, however, it can be applied over the following COMPATIBILITY primers:

Interzinc 22

Interzinc 52

Recommended topcoats are:

Chartek 1709 Interchar 1190 Interfine 979 Intergard 740 Interthane 870UHS\* Interzone 954

Chartek 7 Interchar 212 Intergard 345 Interseal 670HS Interthane 990

Chartek 8E Interfine 878 Intergard 475HS Interthane 870 Interthane 990V\*

For other suitable topcoats, consult International Protective Coatings.

\*available only in selected countries.





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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** This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

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 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		
	1 US gal	0.75 US 1 US gal	0.25 US 1 US quart		
		gal	gal		
	For availability of o	other pack sizes contact I	nternational Protective Coatings	;	
SHIPPING WEIGHT	Unit Size	Part A	Part B		
(TYPICAL)	20 liter	26.8 kg	7.1 kg		
	5 US gal	54.1 lb	13 lb		
	1 US gal	12 lb	3.5 lb		
STORAGE	Shelf Life	12 months 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 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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