

#### Ероху

#### **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 INFORMATION FOR INTERGARD 251HS**

Color Red, Gray, Buff

**Gloss Level** Matte

**Volume Solids** 75% ± 2%

**Typical Thickness** 3-8 mils (75-200 microns) dry equivalent to 4-10.7 mils (100-267 microns)

401 sq.ft/US gallon at 3 mils d.f.t and stated volume solids **Theoretical Coverage** 

10 m²/liter at 75 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
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>&</sup>lt;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); Part B 86°F (30°C); Mixed 88°F (31°C)

**Product Weight** 13.3 lb/gal (1.59 kg/l)

EPA Method 24 VOC 2.02 lb/gal (243 g/lt)

> 157 g/kg **EU Solvent Emissions Directive**

> > (Council Directive 1999/13/EC)

See Product Characteristics section for further details

#### **Protective Coatings**



### **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.

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 Sa2½ standard (ISO 8501-1:2007). Where this is not practical, preparation to SSPC SP11 is acceptable.

#### **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** 41°F (5°C) 59°F (15°C) 77°F (25°C) 104°F (40°C)

90 minutes 60 minutes 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 SpraySuitableGunDeVilbiss MBC or JGA

(Pressure Pot) Air Cap 704 or 765

Fluid Tip E

Brush Suitable Recommended for small areas and repairs, multiple coats

will be necessary to achieve the required dry film thickness.

Roller Suitable Recommended for small areas and repairs, multiple coats

will be necessary to achieve the required dry film thickness.

**Thinner** International GTA220. Do not thin more than allowed by local environmental

legislation

Cleaner 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.

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

delavs.

All surplus materials and empty containers should be disposed of in accordance with

appropriate regional regulations/legislation.



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#### 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)	5 hours 4 hours	16 hours 6 hours	16 hours 6 hours	Extended <sup>1</sup> Extended <sup>1</sup>
77°F (25°C)	90 minutes	4 hours	4 hours	Extended <sup>1</sup>
104°F (40°C)	45 minutes	2 hours	2 hours	Extended <sup>1</sup>

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

#### Pot Life:

41°F (5°C)	59°F (15°C)	77°F (25°C)	104°F (40°C)
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 COMPATIBILITY

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

Interzinc 22	Interzinc 52
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Recommended topcoats are:

Chartek 1709	Chartek 7	Chartek 8E
Interchar 1190	Interchar 212	Interfine 878
Interfine 979	Intergard 345	Intergard 475HS
Intergard 740	Interseal 670HS	Interthane 870
Interthane 870UHS*	Interthane 990	Interthane 990V*
Interzone 054		

For other suitable topcoats, consult International Protective Coatings.

<sup>\*</sup>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 PRECAUTIONS

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	ther pack sizes contact Ir	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		°C). Subject to re-inspection there	

#### 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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