

## Epoxy Zinc-Rich

### PRODUCT DESCRIPTION

A two component, metallic zinc rich epoxy primer which complies with the composition and performance requirements of SSPC Paint 20.

### INTENDED USES

Ideal for cathodic protection of steel structures, tanks, bridges, equipment, piping and other steel surfaces exposed in mild to severe industrial environments. Also ideal for touch-up and maintenance work because of its easy application, wide compatibility and fast dry to recoat.

Meets Class A slip and creep for faying surfaces.

### PRACTICAL INFORMATION FOR CATHACOAT 313

<b>Colour</b>	Green
<b>Gloss Level</b>	Matt
<b>Volume Solids</b>	78% ± 2%
<b>Typical Thickness</b>	50-100 microns (2-4 mils) dry equivalent to 64-128 microns (2.6-5.1 mils) wet
<b>Theoretical Coverage</b>	10.40 m <sup>2</sup> /litre at 75 microns d.f.t and stated volume solids 417 sq.ft/US gallon at 3 mils d.f.t and stated volume solids
<b>Practical Coverage</b>	Allow appropriate loss factors
<b>Method of Application</b>	Airless Spray, Roller, Air Spray, Brush, Conventional Spray
<b>Drying Time</b>	

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
5°C (41°F)	*1	13 hours	4.5 hours	30 days <sup>2</sup>
15°C (59°F)	*1	7 hours	2 hours	30 days <sup>2</sup>
25°C (77°F)	*1	4 hours	1 hour	30 days <sup>2</sup>

<sup>1</sup> \* not applicable

<sup>2</sup> Where overcoating is with epoxy intermediates / finishes or self overcoating.

Overcoating intervals will be reduced where Cathacoat 313 is to be overcoated with approved finishes; see Product Characteristics for further information.

### REGULATORY DATA

<b>Flash Point (Typical)</b>	Part A 32°C (90°F); Part B 43°C (109°F); Mixed 32°C (90°F)	
<b>Product Weight</b>	2.69 kg/l (22.4 lb/gal)	
<b>VOC</b>	2.35 lb/gal (282 g/l)	EPA Method 24

See Product Characteristics section for further details

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### SURFACE PREPARATION

#### Steel Substrates

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.

Where necessary, remove weld spatter and smooth weld seams and sharp edges.

Blast to near-white metal surface cleanliness in accordance with SSPC-SP10 or ISO8501-1:2007 Sa2½ for immersion service, or commercial blast cleanliness in accordance with SSPC-SP6 or ISO8501-1:2007 Sa2 for non-immersion service. Blast profile on steel should be 1.5 to 2.5 mils (38 -62 microns) in depth and be of a sharp, jagged nature as opposed to a "peen" pattern (from shot blasting). Surfaces must be free of grit dust.

#### Previously Painted Surfaces

Cathacoat 313 may not be applied to existing coatings. All coatings must be removed by abrasive blast cleaning to a minimum standard of SSPC SP6, ISO8501-1:2007 Sa2.

### APPLICATION

<b>Mixing</b>	Material is supplied in two containers. Always mix whole units. The zinc metal is ready-mixed in Part A. Stir thoroughly with a slow speed mixer while slowly adding Part B. Continue to mix at slow speeds to a homogeneous condition. At temperatures of 60°F (16°C) or above, allow a 15 minute induction time before using. Add about 10 minutes for each 10°F (6°C) lower temperature.	
<b>Mix Ratio</b>	9 part(s) : 1 part(s) by volume	
<b>Working Pot Life</b>	5°C (41°F)	15°C (59°F) 25°C (77°F)
	7 hours	6 hours 6 hours
<b>Airless Spray</b>	Recommended	Tip Range 0.63-0.63 mm (25-25 thou) Total output fluid pressure at spray tip not less than 207 kg/cm <sup>2</sup> (2944 p.s.i.)
<b>Air Spray (Pressure Pot)</b>	Suitable	Use a fluid tip of 1.78mm (0.070") or larger, a professional grade conventional gun and agitated spray pots.
<b>Brush</b>	Suitable	
<b>Roller</b>	Suitable	
<b>Thinner</b>	T-10 Thinner (T-5 Thinner)	Up to 10% thinner may be added to aid application at lower temperatures.
<b>Cleaner</b>	T-10 Thinner	
<b>Work Stoppages</b>	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with T-10 Thinner. 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.	
<b>Clean Up</b>	Clean all equipment immediately after use with T-10 Thinner. 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 material and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.	

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### PRODUCT CHARACTERISTICS

#### Advantages:

- Exceptional corrosion resistance
- Provides cathodic protection
- Easy to mix
- Zinc premixed
- Fast dry to handle and recoat
- Applies easily by brush, roll or spray
- Accepts a wide variety of topcoats for severe exposures
- Formulated without lead, chromate or mercury components
- Low VOC

Where Cathacoat 313 is to be overcoated with Devran 224V, the following overcoating intervals will apply;

	Minimum	Maximum
5°C (41°F)	4.5 hours	14 days
15°C (59°F)	2 hours	14 days
25°C (77°F)	1 hour	14 days

Where Cathacoat 313 is to be overcoated with Devthane urethane and Devflex acrylic finishes, the following overcoating intervals will apply;

	Minimum	Maximum
5°C (41°F)	4.5 hours	5 days
15°C (59°F)	2 hours	5 days
25°C (77°F)	1 hour	5 days

Do not topcoat with alkyd or alkyd-urethane coatings.

Cathacoat 313 is not suitable for solvent or chemical immersion.

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

The following topcoats are approved for use with Cathacoat 313

Bar-Rust 231	Bar-Rust 235
Bar-Rust 235V	Bar-Rust 236
Cathacoat 313	Devran 201H
Devran 203	Devthane 349QC
Devthane 359	Devthane 359H
Devthane 378	Devthane 378H
Devthane 379	Devthane 379H
Devthane 389	Devthane 389H
Devran 224V	

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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](http://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
	5 US gal	4.5 US gal	6 US gal	0.5 US gal	1 US gal
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
		106.2 lb		11.7 lb	
	5 US gal				
STORAGE	Shelf Life	24 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 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](http://www.international-marine.com) or [www.international-pc.com](http://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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