

## Epoxy Zinc-Rich

**PRODUCT DESCRIPTION** A two component, metallic zinc rich epoxy primer.

**INTENDED USES** For the interior and exterior protection of potable water tanks.

Ideal for cathodic protection of steel structures, tanks, 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.

When used for potable water tank applications, please review the approval available at [www.nsf.org](http://www.nsf.org) for current listing information.



Certified to NSF/ANSI Standard 61

**PRACTICAL INFORMATION FOR CATHACOAT 316**

<b>Colour</b>	Light Green
<b>Gloss Level</b>	Matt
<b>Volume Solids</b>	74% ± 2%
<b>Typical Thickness</b>	62-88 microns (2.5-3.5 mils) dry equivalent to 84-119 microns (3.4-4.8 mils) wet
<b>Theoretical Coverage</b>	9.87 m <sup>2</sup> /litre at 75 microns d.f.t and stated volume solids 396 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,
<b>Drying Time</b>	
	Overcoating interval with self
<b>Temperature</b>	<b>Touch Dry</b> <b>Hard Dry</b> <i>Minimum</i> <i>Maximum</i>
5°C (41°F)	*1      20 hours      5 hours      90 days <sup>2</sup>
15°C (59°F)	*1      5 hours      2 hours      90 days <sup>2</sup>
25°C (77°F)	*1      1 hour      1 hour      90 days <sup>2</sup>

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

<sup>2</sup> See Product Characteristics section for further details

**REGULATORY DATA**

<b>Flash Point (Typical)</b>	Part A 21°C (70°F); Part B 30°C (86°F); Mixed 27°C (81°F)
<b>Product Weight</b>	3.35 kg/l (28.0 lb/gal)
<b>VOC</b>	2.01 lb/gal (241 g/lit) EPA Method 24
	See Product Characteristics section for further details

## Epoxy Zinc-Rich

### 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 Sa2½ for non-immersion service. Blast profile on steel should be 38-62 microns (1.5 to 2.5 mils) in depth and be of a sharp, angular nature as opposed to a “peen” pattern (from shot blasting). Surfaces must be free of grit dust.

Apply Cathacoat 316 before oxidation occurs. If oxidation does occur the entire oxidised area should be reblasted to the standard specified.

#### Previously Painted Surfaces

Cathacoat 316 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 Sa2½.

### 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 16°C (60°F) or above, allow a 15 minute induction time before using. Add about 10 minutes for each 6°C (10°F) lower temperature.	
<b>Mix Ratio</b>	9 part(s) : 1 part(s) by volume	
<b>Working Pot Life</b>	5°C (41°F) 9 hours	15°C (59°F) 25°C (77°F) 9 hours 8 hours
<b>Airless Spray</b>	Recommended	Tip size 0.63 mm (25 thou) Total output fluid pressure at spray tip not less than 211 kg/cm <sup>2</sup> (3000 p.s.i.) See Product Characteristics section for further details
<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>	Not normally required	See Product Characteristics section for further details
<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

Do not topcoat with alkyd or alkyd-urethane coatings.

Cathacoat 316 is not suitable for solvent or chemical immersion.

For airless spray application, use fluid hose 3/8" I.D. with maximum 50 ft. length. Pressure pots or pumps should be kept at same level or above spray guns. Keep fluid pressures to minimum. Use agitated spray pots.

For air spray application: Use fluid hose with 1/2" ID and maximum 50ft length, with 15psi pressure. Pressure pots or pumps should be kept at the same level or above spray guns.

Where Cathacoat 316 is to be overcoated with Bar-Rust 231, 231LV, 233H, 233H LV or 236 epoxy coatings, the self minimum and maximum overcoating intervals will apply.

Where Cathacoat 316 is to be overcoated with Bar-Rust 235 epoxy coating, the self minimum overcoating intervals apply, with a 60 day maximum overcoating interval. Where Cathacoat 316 is to be overcoated with Devran 224V epoxy coating, the self-self minimum overcoating intervals apply, with a 14 day maximum overcoating interval.

Where Cathacoat 316 is to be overcoated with Devthane 359, 359H, 389 or 349QC, the following overcoating intervals will apply;

	Minimum	Maximum
5°C (41°F)	5 hours	15 days
15°C (59°F)	4 hours	12 days
25°C (77°F)	2 hours	10 days

Where Cathacoat 316 is to be overcoated with Devthane 378, 378H, 379 or 379H, the following overcoating intervals will apply;

	Minimum	Maximum
5°C (41°F)	5 hours	10 days
15°C (59°F)	4 hours	7 days
25°C (77°F)	2 hours	7 days

Thinning is not normally required or desirable. However, at lower temperatures, small amounts (5% or less) of T-10 Thinner can be added to the mixed components depending on local VOC and air quality regulations.

Do not thin for potable water applications.

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 recommended:

Bar-Rust 231	Devran 223	Interline 975P*
Bar-Rust 231LV	Devran 224V	Interseal 670HS
Bar-Rust 233H*	Devthane 349	
Bar-Rust 233H LV*	Devthane 359	
Bar-Rust 234P*	Devthane 359H	
Bar-Rust 235	Devthane 378	
Bar-Rust 235V	Devthane 378H	
Bar-Rust 236	Devthane 379	
Devran 201H	Devthane 379H	
Devran 203	Devthane 389	

\* NSF-certified topcoats.

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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 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		Part B	
		Vol	Pack	Vol	Pack
	3 US gal	2.7 US gal	3 US quart	0.3 US gal	1 US quart
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
		71.4 lb		7.9 lb	
	3 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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