

**PRODUCT DESCRIPTION**

A high performance, two-component, coal-tar free, chemically-cured high-build epoxy coating

**INTENDED USES**

For use in areas where coal tar epoxy is normally used. Uniquely formulated to provide corrosion protection for steel and masonry surfaces exposed to water immersion or chemical splash, spillage and fumes. Self-priming on most surfaces.

Ideal for use on underground steel storage tanks, underground steel piping, in sewage and waste water treatment plants, petroleum refineries, chemical plants, pulp and paper mills, fertilizer plants, hydro and fossil fuel power plants, and underground coal & salt mines. Excellent for fresh and salt water immersion on steel and concrete structures on bridges, pilings, basins, and pits. Can be used on concrete block and poured concrete surfaces in commercial and industrial facilities.

Meets or exceeds the performance requirements of Corps of Engineers C-200; Steel Structures Painting Council Paint 16; Federal Specification MIL-P- 23236B, (SH) Type I and IV Class 2.

**PRACTICAL INFORMATION FOR DEVTAR 5A**

<b>Color</b>	Black
<b>Gloss Level</b>	Semi Gloss
<b>Volume Solids</b>	69%± 2%
<b>Typical Thickness</b>	6-8 mils (150-200 microns) dry equivalent to 8.7-11.6 mils (217-290 microns) wet
<b>Theoretical Coverage</b>	158 sq.ft/US gallon at 7 mils d.f.t and stated volume solids 3.90 m <sup>2</sup> /liter at 175 microns 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

**Drying Time**

Temperature	Touch Dry	Hard Dry	Overcoating interval with self	
			Minimum	Maximum
41°F (5°C)	*1	48 hours	22 hours	30 days
59°F (15°C)	*1	18 hours	11 hours	30 days
77°F (25°C)	*1	8 hours	4 hours	30 days

<sup>1</sup> Not applicable

**REGULATORY DATA**

<b>Flash Point</b>	Part A 81°F (27°C); Part B 81°F (27°C); Mixed 81°F (27°C)
<b>Product Weight</b>	10.7 lb/gal (1.28 kg/l)
<b>VOC</b>	2.37 lb/gal (285 g/lit) EPA Method 24

See Product Characteristics section for further details

### SURFACE PREPARATION

Surfaces must be dry, clean, free of oil, grease, form release agents, curing compounds, laitance, other foreign matter and be structurally sound. Remove all loose paint, mortar spatter, mill scale, and rust.

#### New Surfaces:

##### Steel

For immersion service, abrasive blast to minimum SSPC-SP10 or ISO8501-1:2007 Sa2½. The blast profile should be jagged rather than “peened” and between 1.5 to 2.5 mils (38-62 microns). After blasting, vacuum or blow off all abrasive dust and ensure surface remains clean before painting. For atmospheric service, abrasive blast to minimum SSPC-SP6 or ISO8501-1:2007 Sa2. For maximum performance, apply over Cathacoat 302H primer.

##### Concrete Block

Remove loose aggregate and repair major voids. Self prime with Devtar 5A

##### Concrete Floors, Poured Concrete:

Cure at least 30 days. Acid etch or abrasive blast slick, glazed concrete or concrete with laitance. Self prime with Devtar 5A

##### Previously Painted Surfaces:

Use Devprep 88 or other suitable cleaner followed by a thorough water rinsing before applying Devtar 5A over old, painted surfaces. Ensure that all existing coatings are soundly adhering. Test patches should be made to determine compatibility.

### APPLICATION

<b>Mixing</b>	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.		
	<ol style="list-style-type: none"> <li>(1) Agitate Base (Part A) with a power agitator.</li> <li>(2) Agitate Curing Agent (Part B) with a power agitator.</li> <li>(3) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.</li> </ol>		
	Allow the mixed material to stand 15 minutes before use.		
<b>Mix Ratio</b>	1 part(s) : 1 part(s) by volume		
<b>Working Pot Life</b>	41°F (5°C)	59°F (15°C)	77°F (25°C)
	6 hours	6 hours	5 hours
<b>Airless Spray</b>	Recommended	Tip Range 21-31 thou (0.53-0.78 mm) Total output fluid pressure at spray tip not less than 3000 psi (211 kg/cm <sup>2</sup> )	
<b>Air Spray (Conventional)</b>	Recommended	See Product Characteristics section for further details	
<b>Brush</b>	Suitable	Only for small areas or touch ups	
<b>Roller</b>	Suitable	Only for small areas or touch ups	
<b>Thinner</b>	T-10 Thinner	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.		

**PRODUCT CHARACTERISTICS**

## Advantages:

- Does not contain coal tar – no coal tar “burns”
- Ease of application
- Excellent chemical resistance – alkalis, dilute acids, sewage, salt brine, liquid fertilizers, crude oil, etc.
- Excellent water immersion resistance to fresh and salt water
- Abrasion resistant
- Good aged flexibility
- Outperforms coal tar epoxies in all respects, including improved recoatability, toxicity, film embrittlement and application properties
- May be topcoated with urethane for good appearance

Not recommended for prolonged contact with strongly oxidizing chemicals, diluted alkalis, ketones, esters, alcohols or for lining tanks used to store “white” petroleum products.

In common with all epoxies, Devtar 5A will chalk and discolor on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

For immersion or underground service use two coats of Devtar 5A at 8 mils (200 microns) dry per coat.

Surfaces coated with this product may become slippery when wet. For additional slip resistance in areas of pedestrian traffic, add one pound per gallon of coarse pumice or other texturing material.

For airless spray application: Ideally, fluid hoses should not be less than 3/8" ID and not longer than 50 feet to obtain optimum results. Longer hose length may require an increase in pump capacity, pressure, and/or thinning.

For air spray application: Use a fluid tip of 0.070" (1.78mm) or larger, a professional grade conventional gun and an air cap with good break-up. The fluid pressure should be kept low, with just enough air pressure to get good break-up of the coating.

Care should be taken that proper and uniform film thicknesses are obtained. Brushing and rolling may require multiple coats to achieve correct film thickness and/or hiding.

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**

---

The following primers are recommended for Devtar 5A:

Cathacoat 302H  
Cathacoat 302HA  
Cathacoat 302HB  
Cathacoat 304L  
Cathacoat 304V

The following topcoats are recommended for Devtar 5A:

Devthane 349QC  
Devthane 359  
Devthane 359H  
Devthane 378  
Devthane 379  
Devthane 389

### 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
	1 US gal	1 US gal	1 US gal	1 US gal	1 US gal
	5 US gal	5 US gal	5 US gal	5 US gal	5 US gal
For availability of other pack sizes contact International Protective Coatings					
SHIPPING WEIGHT	Unit Size	Part A		Part B	
	1 US gal	11 lb		13 lb	
	5 US gal	55.1 lb		57.5 lb	
STORAGE	Shelf Life	24 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.*

*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.*

Copyright © AkzoNobel, 11/12/2010.

 Copyright © AkzoNobel, 11/12/2010.

[www.international-pc.com](http://www.international-pc.com)