

# Allstates Coatings Co.® PRODUCT INFORMATION

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MANUFACTURERS OF PAINT & COATINGS

ALLCOAT™ 400  
COAL TAR EPOXY

## ALLCOAT™ 400 COAL TAR EPOXY

|                                   |  |
|-----------------------------------|--|
| <b>Description:</b>               | Allcoat 400 is a two-component, polyamide cured coal tar epoxy which provides a very hardwearing coating, highly resistant to seawater and mineral oils. Renowned high build coal tar epoxy for protection of steel and concrete in single or two-coat applications. Limited resistance to a number of solvents. Aliphatic hydrocarbons may be discolored.   |
| <b>Features:</b>                  | Excellent chemical, corrosion and abrasion resistance as a self-priming system for long-term protection of steel and concrete in a severely corrosive environment. It provides excellent protection as a lining in crude and fuel oil tanks. <ul style="list-style-type: none"><li>• High build up to 24 mils (610 microns) in a single coat</li><li>• Compatible with controlled cathodic protection</li><li>• Approved by Lloyd's Register of Shipping, American Bureau of Shipping, Bureau Veritas and Maritime Register of Shipping, Russia as a recognized corrosion control coating</li><li>• Meets or exceeds all requirements of:<ul style="list-style-type: none"><li>• Corp of Engineers C-200, C200a</li><li>• AWWA C-210-92 for exterior</li><li>• SSPC-Paint 16</li><li>• Steel Tank Institute Corrosion Control System STI-P<sub>3</sub></li></ul></li></ul> |
| <b>Color:</b>                     | Black  |
| <b>Finish:</b>                    | Gloss. Will discolor, chalk and lose gloss in sunlight exposure.   |
| <b>Primers:</b>                   | Self-priming. Allcoat 400 or others as recommended.  |
| <b>Topcoats:</b>                  | Not recommended  |
| <b>Dry Film:</b>                  | 16.0 mils (400 microns) in one or two coats. Total dry film thickness less than 8 mils (200 microns) or in excess of 24 mils (610 microns) not recommended.  |
| <b>Solids</b>                     | By Volume: 77% ± 2%<br><i>Content:</i>   |
| <b>Theoretical Coverage Rate:</b> | 1187 mil ft <sup>2</sup> (29.1 m <sup>2</sup> /l at 25 microns)<br>Allow for loss in mixing and application  |
| <b>VOC Values:</b>                | As supplied: 1.85 lbs/gal (222 g/l)<br>Thinned:<br>20 oz/gal w/#10: 2.6 lbs/gal (309 g/l)<br>25 oz/gal w/#10: 2.7 lbs/gal (327 g/l)<br>These are nominal values.<br>*Maximum thinning for 250 g/l restricted areas is 6 oz/gal.  |
| <b>Dry Temp Resistance:</b>       | Continuous: 350°F (177°C)<br>Non-continuous: 370°F (190°C)   |
| <b>West Temp. Resistance:</b>     | Immersion temperature should not exceed 120°F (49°C).  |
| <b>Limitations:</b>               | Do not use for potable water requirements  |
| <b>Surface Preparation:</b>       | <u>General:</u> Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.  |

Steel:                      Immersion:                      SSPC-SP-10

This information is to assist customers in determining if this product is suitable for the proposed application, and to satisfy themselves as to the suitability of the contents. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent implied. 12/8/05

Non-Immersion: SSPC-SP6, SSPC-SP2 or SP3 as minimum requirement imparting proper profile.  
Surface Profile: 2.0-3.0 mils (50-75 micron)

Concrete: Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing.

**Performance Data:**

| Test Method            | System                      | Results  | Report # |
|------------------------|-----------------------------|--|----------|
| ASTM D4060<br>Abrasion | Blasted Steel<br>2cts. 300m | 130 mg. Loss after<br>1000 cycles. CS17<br>wheel, 1000 gm<br>load.                                 | 02877    |
| ASTM D4541<br>Adhesion | Blasted Steel<br>2cts. 300m | 1443 psi<br>(Pneumatic)  | 02877    |
| ASTM D2794             | Blasted Steel<br>2cts. 300m | Impact site diameter<br>3/8, 3/8, 1/2 100 in/lbs<br>Gardner Impactor at 1/2 in diam.               | 02877    |
| ASTM B117<br>Salt Fog  | Blasted Steel<br>2cts. 300m | No blistering, rusting or delamination.<br>No measurable undercutting at scribe<br>after 2000 hrs. | 02938    |

**Application Equipment:**

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General): This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray: Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, with 50' maximum material hose .086" I.D. fluid tip and appropriate air cap.

Airless Spray Pump:

|                |                  |
|----------------|------------------|
| Ratio:         | 30:1 (min.)*     |
| GPM Output:    | 3.0 (min.)       |
| Material Hose: | 1/2" I.D. (min.) |
| Tip Size:      | .023-.035"       |
| Output PSI:    | 2100-2500        |
| Filter Size:   | 30 mesh          |

\*Teflon packings are recommended and available from the pump manufacturer.

Brush & Roller (General): Recommended for touch up, striping of weld seams and hard-to-coat areas only. Avoid excessive re-brushing or re-rolling.

Brush: Use a medium bristle brush.

Roller: Use a short-nap synthetic roller cover with phenolic core.

**Mixing:** Power mix separately, then combine and power mix for a minimum of two minutes. DO NOT MIX PARTIAL KITS.

**Ratio:** 4:1 Ratio (A to B)

**Thinning:** Up to 20 oz/gal (16%) w/#10  
 Up to 35 oz/gal (20%) w/#10 for the first coat application to concrete. Use of thinners other than those supplied or recommended by Allstates Coatings Company may adversely affect product performance and void product warranty, whether expressed or implied.

**Pot Life:** 75°F (24°C) 2 hours  
 90°F (32°C) 1 hour  
 Pot life ends when coating loses body and begins to sag.

**Cleanup:** Use Allstates' ALT-874, ALT-911 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

**Safety:** Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas. Avoid inhalation, avoid contact with skin and eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well ventilated areas.

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**Caution:**

This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

