



**Industrial
&
Marine
Coatings**



FAST CLAD® DTM WB EPOXY WATER BASED ACRYLIC EPOXY

4.05

**PART A B70-800
PART B B70V800**

**SERIES
HARDENER**

PRODUCT INFORMATION

Revised 5/05

PRODUCT DESCRIPTION	RECOMMENDED USES																												
<p>FAST CLAD DTM WB EPOXY is a single-coat, fast dry, rust-inhibitive, direct-to-metal, water based polyamine epoxy finish. It dries to a tough gloss finish that exhibits excellent durability and performance properties that are equal to a two-coat water based epoxy primer/finish system.</p> <ul style="list-style-type: none"> • Low odor • Chemical resistant • High film build in one coat • Fast dry to improve productivity • High film build in one coat • Meets VOC and HAPS requirements • Corrosion resistant • Early moisture resistant 	<p>For use directly over prepared steel in industrial and marine applications, such as:</p> <ul style="list-style-type: none"> • Structural steel • Marine applications • Exterior surfaces of steel tanks • Water and wastewater facilities • Industrial machinery and equipment <ul style="list-style-type: none"> • Power plants • Rail cars and locomotives <p>Replaces a two-coat, water based epoxy primer/finish system.</p> <p>Conforms to AWWA D102-03 OCS #5</p> <p>Suitable for use in USDA inspected facilities</p> <p>Ideal for new construction or maintenance.</p> <p>Acceptable for use in high performance architectural applications.</p>																												
PRODUCT CHARACTERISTICS	PERFORMANCE CHARACTERISTICS																												
<p>Finish: Gloss</p> <p>Color: Wide range of colors available</p> <p>Volume Solids: 39% ± 2%, mixed (calculated) Extra White (May vary by color)</p> <p>Weight Solids: 48% ± 2%, mixed Extra White</p> <p>VOC (EPA Method 24): <150 g/L; 1.25 lb/gal, mixed Extra White</p> <p>Mix Ratio: 4:1</p> <p>Recommended Spreading Rate per coat: Wet mils: 15.0 - 23.0 Dry mils: 6.0 - 9.0 Coverage: 70 - 105 sq ft/gal, approximate</p> <p>NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</p> <p>Drying Schedule @ 10.0 mils wet @ 50% RH:</p> <table border="1"> <thead> <tr> <th></th> <th>@ 50°F</th> <th>@ 77°F</th> <th>@ 120°F</th> </tr> </thead> <tbody> <tr> <td>To touch:</td> <td>1 hour</td> <td>45 minutes</td> <td>15 minutes</td> </tr> <tr> <td>To handle:</td> <td>6 hours</td> <td>4 hours</td> <td>2 hours</td> </tr> <tr> <td>To recoat:</td> <td></td> <td></td> <td></td> </tr> <tr> <td> minimum:</td> <td>6 hours</td> <td>4 hours</td> <td>2 hours</td> </tr> <tr> <td> maximum:</td> <td>30 days</td> <td>30 days</td> <td>30 days</td> </tr> <tr> <td>To cure:</td> <td>14 days</td> <td>14 days</td> <td>14 days</td> </tr> </tbody> </table> <p>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity and film thickness dependent.</p> <p>Pot Life: 16 hours 8 hours 3 hours</p> <p>Sweat-in Time: None required</p> <p>Shelf Life: 12 months, unopened Store indoors at 40°F to 100°F.</p> <p>Flash Point: >200°F, PMCC, mixed</p> <p>Reducer: Water (up to 10% recommended)</p> <p>Clean Up: Water</p>		@ 50°F	@ 77°F	@ 120°F	To touch:	1 hour	45 minutes	15 minutes	To handle:	6 hours	4 hours	2 hours	To recoat:				minimum:	6 hours	4 hours	2 hours	maximum:	30 days	30 days	30 days	To cure:	14 days	14 days	14 days	<p>System Tested: (unless otherwise indicated) Substrate: Steel Surface Preparation: SSPC-SP10 1 ct: Fast Clad DTM WB Epoxy @ 5.0 mils dft</p> <p>Abrasion Resistance: Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load Result: 110 mg loss</p> <p>Adhesion: Method: ASTM D4541 Result: 1250 psi</p> <p>Corrosion Weathering: Method: ASTM D5894, 7 cycles, 1500 hours Results: Rating 10 per ASTM D610 for Rusting (field) Rating 10 per ASTM D714 for Blistering (field)</p> <p>Direct Impact Resistance: Method: ASTM D2794 Result: 130 in. lbs.</p> <p>Dry Heat Resistance: Method: ASTM D2485 Result: 250°F</p> <p>Exterior Durability: Method: 1 year at 45° South Result: On test</p> <p>Flexibility: Method: ASTM D522, 180° bend, 1/8" mandrel Result: Passes</p> <p>Moisture Condensation Resistance: Method: ASTM D4585, 100°F, 1500 hours Result: Passes 10</p> <p>Pencil Hardness: Method: ASTM D3363 Result: HB</p> <p>Salt Fog Resistance: Method: ASTM B117, 1500 hours Result: Passes 10</p> <p>Thermal Shock: Method: ASTM D2246, 30 cycles Result: Passes 10</p>
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APPLICATION BULLETIN

Revised 5/05

SURFACE PREPARATION	APPLICATION CONDITIONS
<p>Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.</p> <p>Do not use hydrocarbon solvents for cleaning.</p> <p>Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.</p>	<p>Temperature: 50°F minimum, 100°F maximum (air, surface, and material) At least 5°F above dew point</p> <p>Relative humidity: 85% maximum</p>
<p>Iron & Steel Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.</p>	<p style="text-align: center;">APPLICATION EQUIPMENT</p> <p>The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with VOC regulations and compatible with the existing environmental and application conditions.</p> <p>Reducer Water - recommended up to 10% by volume</p> <p>Clean Up Water</p> <p>Airless Spray</p> <p>Pump 30:1 Pressure 1500 psi Hose 1/4" ID Tip017" - .021" Filter 100 mesh</p> <p>Conventional Spray</p> <p>Gun DeVilbiss MBC-510 Fluid Tip E Air Nozzle 704 Atomization Pressure ... 40-60 psi Fluid Pressure 10-20 psi</p> <p>Brush</p> <p>Brush Nylon/Polyester or Natural Bristle</p> <p>Roller</p> <p>Cover 1/2" woven with phenolic core</p> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p>



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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix contents of each component thoroughly using power agitation. Make certain no pigment remains on the bottom of the can. Then combine four parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. No sweat-in time is required.

Apply paint to the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

Wet mils: 15.0 - 23.0
Dry mils: 6.0 - 9.0
Coverage: 70 - 105 sq ft/gal, approximate

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 10.0 mils wet @ 50% RH:

	@ 50°F	@ 77°F	@ 120°F
To touch:	1 hour	45 minutes	15 minutes
To handle:	6 hours	4 hours	2 hours
To recoat:			
minimum:	6 hours	4 hours	2 hours
maximum:	30 days	30 days	30 days
To cure:	14 days	14 days	14 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity and film thickness dependent.

Pot Life: 16 hours 8 hours 3 hours

Sweat-in Time: None required

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with water.

Drying time is temperature, humidity, and film thickness dependent.

Temperatures above 77°F will shorten pot life.

Do not use hydrocarbon solvents for cleaning.

Refer to Product Information sheet for additional performance characteristics and properties.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with Mineral Spirits, R1K4, to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using any solvent.

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.