



**Industrial  
&  
Marine  
Coatings**

# TILE-CLAD® HIGH SOLIDS

**4.30**

**PART A B62Z  
PART B B60VZ70  
PART B B60VZ75**

**SERIES  
GLOSS HARDENER  
EG-SHEL HARDENER**

## PRODUCT INFORMATION

Revised 5/05

PRODUCT DESCRIPTION		RECOMMENDED USES																																								
<p><b>TILE-CLAD HIGH SOLIDS</b> is a VOC compliant, two-package, epoxy-polyamide coating for use in industrial maintenance environments and high performance architectural applications.</p> <p>Chemical resistant Dry film resists bacterial attack Abrasion resistant Low VOC</p>		<p>For use over prepared substrates such as steel, galvanizing, and concrete in industrial environments.</p> <p>Laboratories Masonry surfaces Offshore structures Storage tanks Structural &amp; support steel Institutional kitchens Chemical processing equipment Institutional &amp; commercial wall coating Suitable for use in USDA inspected facilities Conforms to AWWA D 102-03, OCS #5 Acceptable for use in high performance architectural applications.</p> <p>Lavatories Power plants Schools Marine applications Clean rooms Nuclear power facilities</p>																																								
PRODUCT CHARACTERISTICS		PERFORMANCE CHARACTERISTICS																																								
<p><b>Finish:</b> Gloss and Eg-Shel</p> <p><b>Color:</b> Wide range of colors available, including safety colors</p> <p><b>Volume Solids:</b> 56% ± 2%, mixed, may vary by color</p> <p><b>Weight Solids:</b> 70% ± 2%, mixed, may vary by color</p> <p><b>VOC (EPAMethod 24):</b> Unreduced: &lt;400 g/L; 3.33 lb/gal mixed Reduced 10%: &lt;413 g/L; 3.44 lb/gal</p> <p><b>Mix Ratio:</b> 1:1 by volume</p> <p><b>Recommended Spreading Rate per coat:</b> Wet mils: 4.0 - 7.0 Dry mils: 2.5 - 4.0 Coverage: 225 - 359 sq ft/gal approximate</p> <p><b>NOTE:</b> Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</p> <p><b>Drying Schedule @ 4.0 mils wet @ 50% RH:</b></p> <table border="1"> <thead> <tr> <th></th> <th>@ 55°F</th> <th>@ 77°F</th> <th>@ 110°F</th> </tr> </thead> <tbody> <tr> <td>To touch:</td> <td>3 hours</td> <td>1 hour</td> <td>20 minutes</td> </tr> <tr> <td>Tack free:</td> <td>6 hours</td> <td>2 hours</td> <td>30 minutes</td> </tr> <tr> <td>To recoat:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    minimum</td> <td>6 hours</td> <td>2 hours</td> <td>30 minutes</td> </tr> <tr> <td>    maximum:</td> <td>30 days</td> <td>30 days</td> <td>30 days</td> </tr> <tr> <td>To stack:</td> <td>18 hours</td> <td>16 hours</td> <td>3 hours</td> </tr> <tr> <td>To cure:</td> <td>21 days</td> <td>14 days</td> <td>7 days</td> </tr> <tr> <td><b>Pot life:</b></td> <td>4 hours</td> <td>4 hours</td> <td>2 hours</td> </tr> <tr> <td><b>Sweat-in-Time:</b></td> <td>1 hour</td> <td>30 minutes</td> <td>10 minutes</td> </tr> </tbody> </table> <p>If maximum recoat time is exceeded, abrade surface before re-coating. Drying time is temperature, humidity, and film thickness dependent.</p> <p><b>Shelf Life:</b> 36 months, unopened Store indoors at 40°F to 100°F.</p> <p><b>Flash Point:</b> 64°F, PMCC, mixed</p> <p><b>Reducer/Clean Up:</b> Reducer #54, R7K54-Spray R6K25-Brush &amp; Roll</p>		@ 55°F	@ 77°F	@ 110°F	To touch:	3 hours	1 hour	20 minutes	Tack free:	6 hours	2 hours	30 minutes	To recoat:				minimum	6 hours	2 hours	30 minutes	maximum:	30 days	30 days	30 days	To stack:	18 hours	16 hours	3 hours	To cure:	21 days	14 days	7 days	<b>Pot life:</b>	4 hours	4 hours	2 hours	<b>Sweat-in-Time:</b>	1 hour	30 minutes	10 minutes	<p><b>System Tested:</b> (unless otherwise indicated) Substrate: Steel Surface Preparation: SSPC-SP6/NACE 3 1 ct. Recoatable Epoxy Primer @ 4.0 - 6.0 mils dft 1 ct. Tile-Clad HS @ 3.0 mils dft</p> <p><b>Abrasion Resistance:</b> Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load Result: 80 mg loss</p> <p><b>Accelerated Weathering - QUV:</b> Method: ASTM D4587, QUV-A, 5,000 hours Results: passes</p> <p><b>Adhesion:</b> Method: ASTM D4541 Result: 1050 psi</p> <p><b>Corrosion Weathering:</b> Method: ASTM D5894, 10 cycles, 3336 hours Result: Rating 9 per ASTM D610 for rusting Rating 10 per ASTM D714 for blistering</p> <p><b>Direct Impact Resistance:</b> Method: ASTM D2794 Result: 95 in. lbs.</p> <p><b>Dry Heat Resistance:</b> Method: ASTM D2485 Result: 200°F</p> <p><b>Exterior Durability:</b> Method: 1 year 45° South Result: Excellent, chalks</p> <p><b>Flexibility:</b> Method: ASTM D522, 180° bend, 1/4" mandrel Result: Passes</p> <p><b>Irradiation-Effect on Coatings used in Nuclear Power Plants</b> Method: ANSI 5.12 / ASTM D4082-89 Result: Passes</p> <p><b>Moisture Condensation Resistance:</b> Method: ASTM D4585, 100°F, 1000 hours Result: Passes, no blistering, rust, or delamination</p> <p><b>Pencil Hardness:</b> Method: ASTM D3363 Result: F-H</p> <p><b>Salt Fog Resistance:</b> Method: ASTM B117, 2,500 hours Result: Rating 10 per ASTM D610 for rusting Rating 10 per ASTM D714 for blistering</p> <p>Epoxy coatings may darken or yellow following application and curing. Provides performance comparable to products formulated to federal specification: TT-C-535B</p>	
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RECOMMENDED SYSTEMS	SURFACE PREPARATION
<p><b>Steel, epoxy primer:</b> 1 ct. Recoatable Epoxy Primer @ 4.0 - 6.0 mils df/ct 1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils df/ct</p> <p><b>Steel, universal primer:</b> 1 ct. Kem Bond HS @ 2.0 - 5.0 mils df/ct 1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils df/ct</p> <p><b>Steel, Acrylic Primer:</b> 1 ct. Pro-Cryl WB Universal Primer @ 2.0-4.0 mils df/ct 1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils df/ct</p> <p><b>Steel, epoxy mastic primer:</b> 1 ct. Epoxy Mastic Aluminum II @ 4.0 - 6.0 mils df/ct 1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils df/ct</p> <p><b>Aluminum:</b> 1 ct. DTM Wash Primer @ 0.7 - 1.3 mils df/ct 1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils df/ct</p> <p><b>Concrete Block:</b> 1 ct. Heavy Duty Block Filler @ 10.0 - 18.0 mils df/ct 1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils df/ct</p> <p><b>Galvanized Metal:</b> 1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils df/ct</p> <p><b>Poured Concrete/Tilt-Up Concrete (including floors):</b> 1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils df/ct</p> <p><b>Wood, including floors:</b> 1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils df/ct</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>Refer to product Application Bulletin for detailed surface preparation information.</p> <p>Minimum recommended surface preparation: * Iron &amp; Steel: SSPC-SP2 Aluminum: SSPC-SP 1 Galvanizing: SSPC-SP1 Concrete &amp; Masonry: SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3 Wood, interior: Clean, smooth, dust free</p> <p>* Primer required</p>
	TINTING
	<p>Tint Part A with 844 colorants or Blend-A-Color Toner at 200% strength into Part A. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.</p>
	APPLICATION CONDITIONS
	<p>Temperature: 55°F minimum, 110°F maximum (air, surface, and material) At least 5°F above dew point</p> <p>Relative humidity: 85% maximum</p> <p>Refer to product Application Bulletin for detailed application information.</p>
	ORDERING INFORMATION
	<p>Packaging: Parts A &amp; B: 1 and 5 gallon containers</p> <p>Weight per gallon: 10.78 ± 0.2 lb mixed, may vary by color</p>
	SAFETY PRECAUTIONS
	<p>Refer to the MSDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>
	<p>The systems listed above are representative of the product's use. Other systems may be appropriate.</p>
DISCLAIMER	WARRANTY
<p>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.</p>	<p>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.</p>