



**Industrial  
&  
Marine  
Coatings**

**TILE-CLAD® HIGH SOLIDS**

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

**SERIES**  
**GLOSS HARDENER**  
**EG-SHEL HARDENER**

**PRODUCT INFORMATION**

Revised 4/07

PRODUCT DESCRIPTION	RECOMMENDED USES																																								
<p><b>TILE-CLAD HIGH SOLIDS</b> is a VOC compliant, two-pack-age, epoxy-polyamide coating for use in industrial maintenance environments and high performance architectural applications.</p> <ul style="list-style-type: none"> <li>• Chemical resistant</li> <li>• Dry film resists bacterial attack</li> <li>• Abrasion resistant</li> <li>• Low VOC</li> </ul>	<p>For use over prepared substrates such as steel, galvanizing, and concrete in industrial environments.</p> <ul style="list-style-type: none"> <li>• Laboratories</li> <li>• Masonry surfaces</li> <li>• Offshore structures</li> <li>• Storage tanks</li> <li>• Structural &amp; support steel</li> <li>• Institutional kitchens</li> <li>• Chemical processing equipment</li> <li>• Institutional &amp; commercial wall coating</li> <li>• Suitable for use in USDA inspected facilities</li> </ul> <p>Conforms to AWWA D 102-03, OCS #5 Acceptable for use in high performance architectural applications.</p> <ul style="list-style-type: none"> <li>• Lavatories</li> <li>• Power plants</li> <li>• Schools</li> <li>• Marine applications</li> <li>• Clean rooms</li> <li>• Nuclear power facilities</li> </ul>																																								
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 (EPA Method 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 recoating. 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> 92°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-Effects 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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**PART A      B62Z**  
**PART B      B60VZ70**  
**PART B      B60VZ75**

**SERIES**  
**GLOSS HARDENER**  
**EG-SHEL HARDENER**

### PRODUCT INFORMATION

RECOMMENDED SYSTEMS	SURFACE PREPARATION
<p><b>Steel, epoxy primer:</b>            1 ct. Recoatable Epoxy Primer @ 4.0 - 6.0 mils dft/ct            1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils dft/ct</p> <p><b>Steel, universal primer:</b>            1 ct. Kem Bond HS @ 2.0 - 5.0 mils dft/ct            1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils dft/ct</p> <p><b>Steel, Acrylic Primer:</b>            1 ct. Pro-Cryl WB Universal Primer @ 2.0-4.0 mils dft            1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils dft/ct</p> <p><b>Steel, epoxy mastic primer:</b>            1 ct. Epoxy Mastic Aluminum II @ 4.0 - 6.0 mils dft/ct            1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils dft/ct</p> <p><b>Aluminum:</b>            1 ct. DTM Wash Primer @ 0.7 - 1.3 mils dft/ct            1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils dft/ct</p> <p><b>Concrete Block:</b>            1 ct. Heavy Duty Block Filler @ 10.0 - 18.0 mils dft/ct            1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils dft/ct</p> <p><b>Galvanized Metal:</b>            1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils dft/ct</p> <p><b>Poured Concrete/Tilt-Up Concrete (including floors):</b>            1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils dft/ct</p> <p><b>Wood, including floors:</b>            1-2 cts. Tile-Clad High Solids @ 2.5 - 4.0 mils dft/ct</p> <p>The systems listed above are representative of the product's use. Other systems may be appropriate.</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-SP1            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>
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>





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## APPLICATION BULLETIN

### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with power agitation. Make certain no pigment remains on the bottom of the cans. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated. Re-stir before using.

If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in.

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

**Recommended Spreading Rate per coat:**

Wet mils: 4.0 - 7.0  
Dry mils: 2.5 - 4.0  
Coverage: 225 - 359 sq ft/gal approximate

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

**Drying Schedule @ 4.0 mils wet @ 50% RH:**

	@ 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

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

Application of coating below minimum or above maximum recommended spreading rate may adversely affecting 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 apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #54, R7K54.

Quik-Kick Epoxy Accelerator is acceptable for use. See data page 4.99 for details.

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

### CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer #54, R7K54. Clean tools immediately after use with Reducer #54, R7K54. 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

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### WARRANTY

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