	Protective TILE-CLAD® HIGH SOLIDS						
SHERWIN WILLIAMS.	& Mar Coati	ine	Part A Part B Part B Part B	B62Z B60VZ70 B60VZ75 B60VZX70		Series Gloss Hardener g-Shel Hardener R Gloss Hardener	
Revised 10/10		Р	RODUCT IN	FORMATION		4.30	
	<b>P</b> RODUCT <b>L</b>	DESCRIPTION		Recommended Uses			
<b>TILE-CLAD HIGH SOLIDS</b> is a low VOC, two-package, epoxy- polyamide coating for use in industrial maintenance environments and high performance architectural applications.				For use over prepared substrates such as steel, galvanizing, and concrete in industrial environments.         • Laboratories       • Lavatories         • Laboratories       • Lavatories         • Masonry surfaces       • Power plants         • Offshore structures       • Schools         • Storage tanks       • Marine applications         • Institutional kitchens       • Nuclear power facilities         • Chemical processing equipment       • Institutional & commercial wall coating         • Suitable for use in USDA inspected facilities       • Conforms to AWWA D 102-03, OCS #5         • Acceptable for use in bigh performance architectural applications.			
<ul> <li>Chemical resistant</li> <li>Abrasion resistant</li> <li>Low VOC</li> <li>B60VZX70 Hardener - resists film attack by mildew</li> <li>Outstanding application properties</li> </ul>							
Finish:	<b>PRODUCT CHARACTERISTICS</b> Gloss and Eg-Shel						
Color:	Wide	range of colors av y colors	ailable, including	PERFORMANCE CHARACTERISTICS			
Volume Solids:	<b>Substrate*</b> : Steel						
Weight Solids:	70%	± 2%, mixed, ma	y vary by color	Surface Preparation*: SSPC-SP6/NACE 3			
VOC (EPA Method 24):       Unreduced:       <400 g/L; 3.33 lb/gal					ls (100-150 microns) dft s) dft		
Mix Ratio: 1:1 by volume           Recommended Spreading Rate per coat:				Test Name Test Method Results			
<u>Neconini</u>		Minimum	Maximum	Abrasion	ASTM D4060, CS17 wheel, 1000 cycles,	80 mg loss	
Wet mils (micro		<b>4.0</b> (100)	<b>7.0</b> (175)	Resistance	1 kg load		
Dry mils (micror ~Coverage sq f	,	<b>2.5</b> (63) <b>225</b> (5.5)	<b>4.0</b> (100) <b>359</b> (8.8)	Accelerated Weathering - QUV	ASTM D4587, QUV-A, 5,000 hours	Passes	
Theoretical covera	ge sa ft/gal	<b>896</b> (21.9)	339 (0.0)	Adhesion	ASTM D4541	1050 psi	
achieve maximu	or roll application m film thicknes	n may require mu s and uniformity o	f appearance.	Corrosion Weathering	ASTM D5894, 10 cycles, 3336 hours	Rating 9 per ASTM D610 for rusting; Rating 10 per ASTM D714 for blistering	
	<u>edule @ 4.0</u> @ 55°F/13°C	<u>mils wet (100</u> @ 77°F/25°C	<u>microns):</u> @ 110°F/43°C	Direct Impact Resistance	ASTM D2794	95 in. lb.	
To touch:	3 hours	<b>50% RH</b> 1 hour	20 minutes	Dry Heat Resistance	ASTM D2485	200°F (93°C)	
Tack free: To recoat:	6 hours	2 hours	30 minutes	Exterior Durability Flexibility	1 year at 45° South ASTM D522, 180° bend, 1/4" mandrel	Excellent, chalks Passes	
minimum: maximum: To stack: To cure:	6 hours 30 days 18 hours 21 days	2 hours 30 days 16 hours 14 days	30 minutes 30 days 3 hours 7 days	Irradiation-Effects on Coatings used in Nuclear Power Plants	ANSI 5.12 / ASTM D4082-89	Passes	
If maximum recoat time is exceeded, abrade surface before recoating.			Moisture Condensa-	ASTM D4585, 100°F	Passes, no blistering,		
Drying time is tem	perature, humic 4 hours	<i>lity, and film thickn</i> 4 hours	ess dependent. 2 hours	tion Resistance Pencil Hardness	(38°C), 1000 hours ASTM D3363	rust, or delamination F-H	
Sweat-in-time:	1 hour	30 minutes 36 months, uno	10 minutes	Salt Fog Resistance	ASTM B117, 2,500 hours	Rating 10 per ASTM D610 for rusting; Rating 10 per ASTM	
Store indoors at 40°F (4.5°C) to 100°F (38°C).Flash Point:Reducer/Clean Up:Reducer #54, R7K54-Spray R6K25-Brush & Roll		Epoxy coatings may darken or yellow following application and curing. Provides performance comparable to products formulated to federal specification: TT-C-535B					



Application Bulletin.

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**TILE-CLAD® HIGH SOLIDS** 

PART A PART B PART B PART B **B62Z** B60VZ70 B60VZ75 **B60VZX70** 

**S**ERIES **GLOSS HARDENER** EG-SHEL HARDENER MR GLOSS HARDENER

## **PRODUCT INFORMATION**

4.30

<b>Recommended Systems</b>			SURFACE PREPARATION	
	Dry Film Th	ickness / ct.		
	Mils	(Microns)	Surface must be clean, dry, and in sound condition. Remove all	
Steel, Epoxy Primer:	4000	(400.450)	oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.	
1 ct. Recoatable Epoxy Primer 1-2 cts. Tile-Clad High Solids	4.0-6.0 2.5-4.0	(100-150) (63-100)	-	
1-2 cts. The-Clau High Solids	2.5-4.0	(03-100)	Refer to product Application Bulletin for detailed surface prepara- tion information.	
Steel, Universal Primer:			Minimum recommended surface preparation:	
1 ct. Kem Bond HS	2.0-5.0	(50-125)	* Iron & Steel: SSPC-SP2	
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	Minimum recommended surface preparation: * Iron & Steel: SSPC-SP2 * Aluminum: SSPC-SP1 Galvanizing: SSPC-SP1	
Steel, Acrylic Primer:			Galvanizing: SSPC-SP1 Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3	
1 ct Pro-Cryl WB Universal Primer	2.0-4.0	(50-100)	Wood, interior: Clean, smooth, dust free	
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	* Primer required	
Steel, Epoxy Mastic Primer:			Surface Preparation Standards Condition of ISO 8501-1 Swedish Std.	
1 ct. Epoxy Mastic Aluminum II	4.0-6.0	(100-150)	Surface BS7079:A1 SIS055900 SSPC NACE	
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	White Metal         Sa 3         Sa 3         SP 5         1           Near White Metal         Sa 2.5         Sa 2.5         SP 10         2           Commercial Blast         Sa 2         Sa 2         SP 6         3           Brush-Off Blast         Sa 1         SP 7         4	
C C		, , , , , , , , , , , , , , , , , , ,	Commercial Blast Sa 2 Sa 2 SP 6 3 Brush-Off Blast Sa 1 Sa 2 SP 7 4 Hand Tool Cleaning Rusted C St 2 C St 2 SP 2 -	
Aluminum:		((,,,,,,,))	Pitted & Rusted D St 2 D St 2 SP 2 -	
1 ct. DTM Wash Primer 1-2 cts. Tile-Clad High Solids	0.7-1.3 2.5-4.0	(18-32) (63-100)	Power Tool Cleaning Rusted C St 3 C St 3 SP 3 - Pitted & Rusted D St 3 D St 3 SP 3 -	
r-2 cls. The-Clau High Solids	2.5-4.0	(03-100)	T	
Concrete Block:			ΤιΝΤΙΝG	
1 ct. Heavy Duty Block Filler	10.0-18.0	(250-400)	Tint Part A with Maxitoner colorants or Blend-A-Color Toner at 200%	
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	strength into Part A. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.	
Galvanized Metal:				
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	APPLICATION CONDITIONS	
Device of Compared a (Tills Unic Compared a Comp	ath (in alwelin a	fla ana).	Temperature:55°F (13°C) minimum, 110°F (43°C)	
Poured Concrete/Tilt-Up Concrete Smo 1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	maximum	
	2.0 4.0	(00 100)	(air, surface, and material) At least 5°F (2.8°C) above dew point	
Wood, including floors:			Relative humidity: 85% maximum	
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	Refer to product Application Bulletin for detailed application infor	
			mation.	
The systems listed above are represe	ntative of the p	product's use,	Ordering Information	
other systems may be appropriate.			Packaging:	
			Parts A & B: 1 gallon (3.78L) and 5 gallon (18.9L)	
			containers	
			Weight: 10.78 ± 0.2 lb/gal ; 1.3 Kg/L	
			mixed, may vary by color	
			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.	
			WARRANTY	
Disclaimer			The Sherwin-Williams Company warrants our products to be free of manufactur	
			ing defects in accord with applicable Sherwin-Williams quality control procedures	
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Such information and recommendations set for	th herein are subj	ect to change and	determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEI	
pertain to the product offered at the time of p Williams representative to obtain the most rec			OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER	
Application Bulletin			CHANTABILITY AND FITNESS FOR A PARTICULAR DURDOSE	

CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Cover			E-CLAD <sup>®</sup> HIGH SOLID		
SHERWIN VILLIAMS		Part A Part B Part B Part B	B62Z B60VZ70 B60VZ75 B60VZX70	Series Gloss Hardener Eg-Shel Hardener MR Gloss Hardener	
Revised 10/10		<b>A</b> PPLICATIO	<u>n Bulletin</u>	4.30	
	Surface Preparation	S	Application Conditions		
	clean, dry, and in sound con dirt, loose rust, and other f adhesion.		Temperature:	55°F (13°C) minimum, 110°F (43°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point	
Iron & Steel Minimum surface preparation is Hand Tool Clean per SSPC-SP2.			Relative humidity:	85% maximum	
SSPC-SP1. For be	d grease from surface by So etter performance, use Comm	nercial Blast Clean-	APPLICATION EQUIPMENT		
ing per SSPC-SP6 angular abrasive fo Prime any bare ste Primer Required. Aluminum Remove all oil, gr	WACE 3, blast clean all surfa or optimum surface profile (2 eel within 8 hours or before fl ease, dirt, oxide and other per SSPC-SP1. Primer Requ	aces using a sharp, mils / 50 microns). ash rusting occurs. foreign material by	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 existing VOC regulations and compatible with the existing environmental and application conditions. <b>Reducer/Clean Up</b>		
<b>Galvanized Steel</b> Allow to weather a minimum of six months prior to coating. Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.			Airless Spray Pressure Hose Tip Filter Reduction	3/8" ID 019"	
No. 310.2, CSP 1- Concrete and mort Remove all loose free of laitance, co curing membranes	sonry aration, refer to SSPC-SP13 3. Surfaces should be thorou ar must be cured at least 28 d mortar and foreign materia uncrete dust, dirt, form releas s, loose cement and harden her voids with Steel-Seam F	ighly clean and dry. ays @ 75°F (24°C). I. Surface must be agents, moisture ers. Fill bug holes,	Conventional Spray GunBinks 95 Fluid Nozzle		
from the surface u Sand to remove a obtain a proper su and paint as soon mediately after a streaks must be s	clean, dry and sound. Removising a degreasing solvent of any loose or deteriorated surface profile. Prime with record as possible. No painting s rain or during foggy weather craped or sanded and spot pplied. All nail holes or small	r strong detergent. Inface wood and to commended primer hould be done im- ter. Knots and pitch t primed before full	Reduction Roller Cover	Nylon/Polyester or Natural Bristle R6K25 as needed up to 10% by volume 	
White Metal Near White Metal Commercial Blast Brush-Off Blast Hand Tool Cleaning	Surface Preparation Standards ondition of ISO 8501-1 Swedis Inface BS7079:A1 SIS055 Sa 3 Sa 3 Sa 2.5 Sa 2.5 Sa 2 Sa 2 Sa 1 Sa 2 Justed C St 2 C St 2 tted & Rusted D St 2 D St 2 Justed C St 3 C St 3 Listed C St 3 C St 3 St 3 C St 3 C St 3 St 4 C St 4 C St 3 C St 3 St 4 C St	h Std. 900 SSPC NACE SP 5 1 SP 10 2 SP 6 3 SP 7 4 SP 2 - SP 2 - SP 3 -	If specific applicatic equipment may be	on equipment is not listed above, equivalent substituted.	

X	<b>Protective</b> TILE			E-CLAD <sup>®</sup> HIGH SOLIDS		
SHERWIN VILLIAMS.	& Mari Coatii		Part A Part B Part B Part B	B62Z B60VZ70 B60VZ75 B60VZX70	Series Gloss Hardener Eg-Shel Hardener MR Gloss Hardener	
		A	PPLICATIO	N BULLETIN	4.30	
A	PPLICATION	Procedures		Performance Tips		
Surface preparation must be completed as indicated.				Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.		
Mix contents of each component thoroughly with low speed 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				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.		
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				Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or po- rosity 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.		
rate as indicated below:           Recommended Spreading Rate per coat:				Excessive reduction of material can affect film build, appearance, and adhesion.		
Wet mils (micro	ns)	Minimum <b>4.0</b> (100)	Maximum 7.0 (175)	Do not apply the material bey	ond recommended pot life.	
Dry mils (micror ~Coverage sq f	ns)	<b>2.5</b> (63) <b>225</b> (5.5)	<b>4.0</b> (100) <b>359</b> (8.8)	Do not mix previously catalyz	ed material with new.	
Theoretical coverage sq ft/gal (m <sup>2</sup> L) @ 1 mil / 25 microns dft 896 (21.9) NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.			ltiple coats to	In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #54, R7K54.		
Drying Schedule @ 4.0 mils wet (100 microns):           @ 55°F/13°C         @ 77°F/25°C         @ 110°F/43°C				Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.		
To touch: Tack free:	3 hours 6 hours	<i>50% RH</i> 1 hour 2 hours	20 minutes 30 minutes	Quik-Kick Epoxy Accelerator i 4.99 for details.	is acceptable for use. See data page	
To recoat: minimum: maximum:	6 hours 30 days	2 hours 30 days	30 minutes 30 days	Insufficient ventilation, incom external heaters may cause p	plete mixing, miscatalyzation, and premature yellowing.	
To stack: To cure:	18 hours 21 days	16 hours 14 days	3 hours 7 days	Excessive film build, poor ver cause solvent entrapment an	ntilation, and cool temperatures may d premature coating failure.	
If maximum recoat a Drying time is tem Pot life: Sweat-in-time:			Ű	Refer to Product Information characteristics and propertie	n sheet for additional performance es.	
Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.			elow minimum	SAFETY	Precautions	
			anect coating	Refer to the MSDS sheet before use		
CLEAN UP INSTRUCTIONS Clean spills and spatters immediately with Reducer #54, R7K54.			cer #54, R7K54.	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.		
Clean tools immediately after use with Reducer #54, R7K54. Follow manufacturer's safety recommendations when using any solvent.				W	ARRANTY	
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