	Prote	ctive	TIL	E-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 IR Gloss Hardener	
Revised Januar	y 16, 2015	P	RODUCT	NFORMATION		4.30	
	Product L	D ESCRIPTION		Recommended Uses			
TILE-CLAD HIGH SOLIDS 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 • Power plants			
 Chemical resista Abrasion resista Low VOC B60VZX70 Hard Outstanding app 	nt lener - resists	film attack by mi	ldew	Offshore structures Storage tanks Structural & support steel Institutional kitchens DOE Nuclear Fuel Facilities DOE Nuclear Weapons Facilities Chemical processing equipment Institutional & commercial well eacting			
Pr	ходист С н/	ARACTERISTICS	5				
Finish:	Gloss	s and Eg-Shel		 Suitable for use in USDA inspected facilities Conforms to AWWA D 102, OCS #5 Acceptable for use in high performance architectural applications. Conforms with MPI # 77 			
Color:		range of colors av y colors	ailable, including	 Inis product meets specific design requirements for non-safety related nuclear plant applications in Level II, III and Balance of 			
Volume Solids:	56%	± 2%, mixed, ma	y vary by color	Plant, and DOE nuclear facilities*. * Nuclear qualifications are NRC license specific to the facility.			
Weight Solids:	70%	± 2%, mixed, ma	y vary by color	PERFORMANCE CHARACTERISTICS			
VOC (EPA Method mixed	d 24): Unrec Reduc		g/L; 3.33 lb/gal g/L; 3.44 lb/gal	Substrate*: Steel			
Mix Ratio:	1:1 b	y volume		Surface Preparation System Tested*:	*: SSPC-SP6/NACE	3	
Recomm		ading Rate pe	r coat:	1 ct. Recoatable Epoxy Primer @ 4.0 - 6.0 mils (100-150 microns) dft			
		Minimum	Maximum	1 ct. Tile-Clad HS (*unless otherwise noted be	2) 3.0 mils (25 micron	s) dft	
Wet mils (microsoft Dry mi		4.0 (100) 2.5 (63)	7.0 (175) 4.0 (100)	Test Name	Test Method	Results	
 Coverage sq f Theoretical covera (m²/L) @ 1 mil / 25 	t/gal (m²/L) ge sq ft/gal	225 (5.5) 896 (21.9)	359 (8.8)	Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	80 mg loss	
NOTE: Brush o	r roll applicatio	n may require mu s and uniformity o		Accelerated Weathering - QUV	ASTM D4587, QUV-A, 5,000 hours	Passes	
			,,	Adhesion	ASTM D4541	1050 psi	
	edule @ 4.0 @ 55°F/13°C	<u>mils wet (100</u> @ 77°F/25°C 50% RH	<u>microns):</u> @ 110°F/43°C	Corrosion Weathering	ASTM D5894, 10 cycles, 3336 hours	Rating 9 per ASTM D610 for rusting; Rating 10 per ASTM D714 for blistering	
To touch: Tack free:	3 hours 6 hours	1 hour 2 hours	20 minutes 30 minutes	Nuclear Decontamination	ASTM D4256/ANSI N 5.12	99% Water Wash; 95% Overall	
To recoat: minimum:	6 hours	2 hours	30 minutes	Direct Impact Resistance	ASTM D2794	95 in. lb.	
maximum:	30 days	30 days	30 days	Dry Heat Resistance	ASTM D2485	200°F (93°C)	
To stack: To cure:	18 hours 21 days	16 hours 14 days	3 hours 7 days	Exterior Durability	1 year at 45° South ASTM D522, 180°	Excellent, chalks	
If maximum recoat t	•	•	-	Flexibility	bend, 1/4" mandrel	Passes	
Drying time is tem	<i>perature, humic</i> 4 hours	<i>lity, and film thickn</i> 4 hours	ess dependent. 2 hours	Moisture Condensa- tion Resistance	ASTM D4585, 100°F (38°C), 1000 hours	Passes, no blistering, rust, or delamination	
Sweat-in-time:	4 hours 1 hour	30 minutes	2 nours 10 minutes	Pencil Hardness	ASTM D3363	F-H	
Shelf Life:		36 months, unc Store indoors a to 100°F (38°C	at 40°F (4.5°C)	Radiation Tolerance	ASTM D4082 / ANSI 5.12	Pass Rating 10 per ASTM D610 for rusting;	
Flash Point: g Reducer/Clean Up: F		92°F (33°C), Pl Reducer #54, F	MCC, mixed R7K54-Spray	Salt Fog Resistance	ASTM B117, 2,500 hours	Rating 10 per ASTM D714 for blistering application and curing.	
		R6K25-Brush 8		Provides performance		ts formulated to federal	



TILE-CLAD® HIGH SOLIDS

 PART A
 B62Z

 PART B
 B60VZ70

 PART B
 B60VZ75

 PART B
 B60VZ770

SERIES GLOSS HARDENER EG-SHEL HARDENER MR GLOSS HARDENER

Revised January 16, 2015

PRODUCT INFORMATION

4.30

Revised January 16, 2015			INFORMATION 4.30		
Recommended Systems			SURFACE PREPARATION		
	Dry Film Th	ickness / ct.			
	Mils	(Microns)	Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to		
Steel, Epoxy Primer:			oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.		
1 ct. Recoatable Epoxy Primer	4.0-6.0	(100-150)			
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	Refer to product Application Bulletin for detailed surface prepara- tion information.		
Steel, Universal Primer:					
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 Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3 Wood interior: SSPC-SP1.3		
Steel, Acrylic Primer:			No. 310.2R, CSP 1-3		
1 ct Pro Industrial Pro-Cryl	2.0-4.0	(50-100)	Wood, interior: Clean, smooth, dust free		
Universal Primer			* Primer required		
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	Surface Preparation Standards Condition of ISO 8501-1 Swedish Std.		
Cteal Energy Maatia Drimany			Surface BS7079:A1 SIS055900 SSPC NACE		
Steel, Epoxy Mastic Primer:	4000	(100 450)	White Metal Sa 3 Sa 3 Sp 5 1 Near White Metal Sa 2.5 SP 5 1 Commercial Blast Sa 2. Sa 2. Sp 6 3		
1 ct. Epoxy Mastic Aluminum II	4.0-6.0	(100-150)	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 SP 6 3 Brush-Off Blast Sa 1 Sa 1 SP 7 4		
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	Brush-Off Blast Sa 1 Sa 1 SP 7 4 Hand Tool Cleaning Pitted & Rusted D St 2 D St 2 SP 2 - Power Tool Cleaning Rusted D St 3 C St 3 SP 3 -		
			Husti-Oli Diast Rusted C St 2 C St 2 SP 2 - Hand Tool Cleaning Pitted & Rusted D St 2 D St 2 SP 2 - Power Tool Cleaning Pitted & Rusted D St 3 C St 3 SP 3 - Power Tool Cleaning Pitted & Rusted D St 3 D St 3 SP 3 -		
Aluminum:	0 7 4 0	(40.00)	Power Tool Cleaning Pitted & Rusted C St 3 C St 3 SP 3 - Pitted & Rusted D St 3 D St 3 SP 3 -		
1 ct. DTM Wash Primer	0.7-1.3	(18-32)			
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	ΤιΝΤΙΝG		
Concrete Block:			Tint Part A with Maxitoner colorants or Blend-A-Color Toner at 200%		
1 ct. Heavy Duty Block Filler	10.0-18.0	(250-400)	strength into Part A. Five minutes minimum mixing on a mechanical		
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	shaker is required for complete mixing of color.		
Galvanized Metal:			Application Conditions		
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	Temperature: 55°F (13°C) minimum, 110°F (43°C)		
			maximum		
Poured Concrete/Tilt-Up Concrete Smoo	th (including	floors):	(air, surface, and material)		
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	Àt least 5°F (2.8°C) abové dew point Relative humidity: 85% maximum		
Wood, including floors:			Refer to product Application Bulletin for detailed application infor-		
1-2 cts. Tile-Clad High Solids	2.5-4.0	(63-100)	mation.		
			Ordering Information		
The systems listed above are represen	tative of the p	product's use,	Packaging:		
other systems may be appropriate.			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.		
Disclaimer			WARRANTY		
		t Data Sheet are	The Sherwin-Williams Company warrants our products to be free of manufacture		
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COVER THE EARTH	Protective &	TIL	E-CLAD®	HIGH SOLIDS
SHERWIN WILLIAMS	Marine	Part A Part B Part B Part B	B62Z B60VZ70 B60VZ75 B60VZX70	Series Gloss Hardener Eg-Shel Hardener MR Gloss Hardener
Revised Januar	y 16, 2015		N BULLETIN	4.30
	SURFACE PREPARATIONS		Appl	ICATION CONDITIONS
	clean, dry, and in sound condit dirt, loose rust, and other for 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 Clear	n per SSPC-SP2.	Relative humidity:	85% maximum
Remove all oil and	grease from surface by Solvetter performance, use Comme	ent Cleaning per	APPLICATION EQUIPMENT	
ing per SSPC-SP6 angular abrasive for Prime any bare ste Primer Required. Aluminum Remove all oil, gr	/NACE 3, blast clean all surfac or optimum surface profile (2 n eel within 8 hours or before flas ease, dirt, oxide and other fo per SSPC-SP1. Primer Requir	es using a sharp, hils / 50 microns). h rusting occurs. reign 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. Reducer/Clean Up	
Galvanized Steel 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"
310.2R, CSP 1-3. Concrete and mort Remove all loose free of laitance, co curing membranes	sonry ation, refer to SSPC-SP13/NA Surfaces should be thorough ar must be cured at least 28 day mortar and foreign material. ncrete dust, dirt, form release s, loose cement and hardener her voids with Steel-Seam FTS	ly clean and dry. vs @ 75°F (24°C). Surface must be agents, moisture vs. 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	elean, dry and sound. Remove sing a degreasing solvent or s iny loose or deteriorated surfa inface profile. Prime with recom a spossible. No painting sho rain or during foggy weather. craped or sanded and spot p pplied. All nail holes or small o	strong detergent. ace wood and to mmended primer buld be done im- Knots and pitch primed before full	Reduction Roller Cover	 Nylon/Polyester or Natural Bristle R6K25 as needed up to 10% by volume 1/4"-3/8" " woven with solvent resistant core R6K25 as needed up to 10% by volume
	Surface Preparation Standards ondition of inface ISO 8501-1 BS7079:A1 Swedish is Sa 3 Sa 2.5 Sa 2 Sa 1 Sa 1 Sa 3 Sa 2.5 Sa 2 Sa 1 Sa 2 Sa 1 Jisted C St 2 C St 2 C St 2 St 2 Ited & Rusted D St 2 C St 3 D St 3 C St 3	Std. SSP5 1 SP5 2 SP6 3 SP7 4 SP2 - SP2 - SP3 -	If specific application equipment is not listed above, equivalent equipment may be substituted.	

	Protective TILE-CLAD [®] HIGH SO					
SHERWIN VILLIAMS.	& Marin Coatin	ngs	Part A Part B Part B Part B	B62Z B60VZ70 B60VZ75 B60VZX70	Series Gloss Hardener Eg-Shel Hardener MR Gloss Hardener	
Revised January			PPLICATIC	N BULLETIN 4.30		
A	PPLICATION F	ROCEDURES		PERFORMANCE TIPS		
Surface preparati	on must be cor	npleted as indi	cated.	Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.		
Mix contents of ead agitation. Make ce cans. Then combi by volume of Part agitation. Allow the before using	rtain no pigmen ne one part by B. Thoroughly	t remains on th volume of Part agitate the mix	A with one part ture 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. Spreading rates are calculated on volume solids and do not include		
before using. If reducer solvent been thoroughly m Apply paint at the	ixed, after swea recommended	at-in.		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. Excessive reduction of material can affect film build, appearance, and adhesion.		
rate as indicated I	below: ended Sprea					
		Minimum	Maximum			
Wet mils (micro	,	4.0 (100)	7.0 (175)	Do not apply the material beyo	nd recommended pot life.	
Dry mils (microns) 2.5 (63) 4.0 (100) ~Coverage sq ft/gal (m²/L) 225 (5.5) 359 (8.8)			4.0 (100) 359 (8.8)	Do not mix previously catalyzed material with new.		
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft 896 (21.9) <i>NOTE: Brush or roll application may require multiple coats to</i> <i>achieve maximum film thickness and uniformity of appearance.</i>			tiple coats to	In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #54, R7K54.		
				Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.		
	edule @ 4.0 m @ 55°F/13°C	<u>111S Wet (100 </u> @ 77°F/25°C	<u>microns):</u> @ 110°F/43°C			
	0	50% RH		, Ouik-Kick Epoxy Accelerator is	acceptable for use. See data page	
To touch: Tack free:	3 hours 6 hours	1 hour 2 hours	20 minutes 30 minutes	4.99 for details.	acceptable for use. See data page	
To recoat:	0 110013			Insufficient ventilation, incompl	ete mixing, miscatalyzation, and	
minimum: maximum:	6 hours 30 days	2 hours 30 days	30 minutes 30 days	external heaters may cause pro	emature yellowing.	
To stack:	18 hours	16 hours	3 hours		ilation, and cool temperatures may	
To cure: If maximum recoat t	21 days	14 days	7 days	cause solvent entrapment and	premature coating failure.	
Drying time is tem		y, and film thickn	ess dependent.	Refer to Product Information sheet for additional performan		
Pot life: Sweat-in-time:	4 hours 1 hour	4 hours 30 minutes	2 hours 10 minutes	characteristics and properties	۶.	
Application of coating above maximum or below minimum			elow minimum	SAFETY F Refer to the MSDS sheet before use.	RECAUTIONS	
recommended spreading rate may adversely affect coating performance.			uncor couring		ions are subject to change without notice	
CLEAN UP INSTRUCTIONS Clean spills and spatters immediately with Reducer #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 immedi	atelv after use w	ith Reducer #54	R7K54. Follow	Wat	RRANTY	
manufacturer's safety recommendations when using any solvent.				The Sherwin-Williams Company warra	nts our products to be free of manufacturing	
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.				Liability for products proven defective, fective product or the refund of the pu as determined by Sherwin-Williams. N OF ANY KIND IS MADE BY SHERWIN	erwin-Williams quality control procedures. , if any, is limited to replacement of the de- rchase price paid for the defective product IO OTHER WARRANTY OR GUARANTEE N-WILLIAMS, EXPRESSED OR IMPLIED, AW OR OTHERWISE, INCLUDING MER- A PARTICULAR PURPOSE.	