COVER LARTH	Protec &	ctive	WAT	ERBASE	ED TILE-	CLAD [®] Y FINISH		
SHERWIN WILLIAMS.	Mari Coati	ine ngs		Part A Part B	B73-100 B73V100	Series Hardener		
Revised Nov 25,	2015	Р	RODUCT I	FORMATION		4.19		
	PRODUCT DESCRIPTION				Recommended Uses			
WATERBASED TILE-CLAD EPOXY FINISH is a two component, low VOC, high performance, water based, epoxy/cycloaliphatic amine finish coating. Developed for use in industrial environments. Waterbased Tile-Clad is a high gloss, abrasion resistant, low yel- lowing epoxy finish with excellent weathering properties. • Early moisture resistance • Resists yellowing • Chemical resistant • Fast dry • Impact and abrasion resistant • Nonflammable • Low odor • Low VOC			For use over prepared steel and concrete surfaces in industrial exposures such as: • Marine applications • Manufacturing plants • Structural steel • Pulp and paper mills • Storage tank exteriors • Pharmaceutical facilities • Nuclear power facilities • Clean rooms • Food processing facilities • Bridges • Wastewater treatment facilities • Bridges • Suitable for use in USDA inspected facilities • Conforms to AWWA D102 OCS #5 • Acceptable for general purpose use on floors. • Acceptable for use in high performance architectural applications. • Complies with performance criteria of SSPC Paint 34.					
P RODUCT C HARACTERISTICS			Performance Characteristics					
Finish:	High	Gloss		Substrate*: Steel				
Color: Wide range of colors available Surface Preparation*: SSPC-SP10 / NACE 2 Volume Solids: 44% ± 2%, mixed System Tested*: 1 ct. Waterbased Tile-Clad Epoxy Primer @ 4.0 mils (100 microns) Veight Solids: 54% ± 2%, mixed				2 mils (100 microns) dft ls (100 microns) dft				
VOC (EPA Metho	d 24): <200	g/L: 1.67 lb/gal.	mixed	Test Name	Test Method	Results		
Mix Ratio:	, 4:1	ading Data na	x 0001	Abrasion Resistance (topcoat only)	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	120 mg loss		
Kecomin	lenueu Spre	Minimum	Maximum	Adhesion	ASTM D4541	550 psi		
Wet mils (micro	ns)	4.5 (112)	9.0 (225)	Corrosion Weathering	ASTM D5894, 20 cycles, 6720 hours	Passes		
Dry mils (microi ~Coverage sq f	ns) t/gal (m²/L)	2.0 (50) 176 (4.3)	4.0 (100) 352 (8.6)	Dry Heat Resistance	ASTM D2485	250°F (121°C)		
Theoretical covera (m²/L) @ 1 mil / 25 NOTE: Brush c	704 (17.2) n may require mul	tiple coats to	Flexibility	ASTM D522, 180° bend, 1/4" mandrel	Passes			
achieve maximum film thickness and uniformity of appearance. Drying Schedule @ 5.0 mils wet (125 microns):			Impace Resistance, Direct (topcoat only)	ASTM D2794	160 in. lb.			
	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 100°F/38°C	Impact Resistance, Indirect (topcoat on	y) ASTM D2794	100 in. lb.		
To touch: To handle: To recoat:	1.5 hours 5.5 hours	45 minutes 4.5 hours	25 minutes 2 hours	Irradiation-Effects on Coatings used in Nuclear Power Plar	ANSI 5.12 / ASTM D4082-89	Passes		
minimum: maximum: To cure:	8 hours 30 days 7 days	6 hours 30 days 7 days	3 hours 30 days 7 days	Moisture Condensation Resistance	ASTM D4585, 100°F (38°C), 2000 hours	Passes		
If maximum recoat time is exceeded, abrade surface before recoating.			Pencil Hardness	ASTM D3363	HB			
Drying time is tem	perature, humic	lity, and film thickn	ess dependent.	Salt Fog Resistance	ASTM B117, 2000	Passes		
Sweat-in-time:	30 minutes	30 minutes 36 months, uno Store indoors a	10 minutes pened t 40°F (4.5°C)	Surface Burning*	ASTM E84/NFPA 255	Flame Spread Index 15; Smoke Development Index 5		
Flash Point:		>200°F (93°C)	, SETA Flash,	Thermal Shock	ASTM D2246, 20 cycles	Passes		
Reducer/Clean Up:		mixed Water		*Report No. IM54.1157-0	01-01			

<u> </u>	Protective	WATERBAS	ED TILE	-CLAD®
COVER EARTH	&		EPO	KY FINISH
SHERWIN	Iviarine Coatings	Part A	B73-100	SERIES
WILLIAMS.	Courings	PART B	B73V100	Hardener
Povined Nev 25	2015	DODUCT INFORMATION		

Revised Nov 25, 2015 RODUCT INFORMATION 4.19 SURFACE PREPARATION **Recommended** Systems Dry Film Thickness / ct. 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. <u>Mils</u> (Microns) Steel: 1 ct. Waterbased Tile-Clad Epoxy Primer 2.0-4.0 (50-100)Refer to product Application Bulletin for detailed surface prepara-1-2 cts. Waterbased Tile-Clad Epoxy Finish 2.0-4.0 (50-100)tion information. Steel: Do not use hydrocarbon solvents for cleaning. 1 ct. ProCryl Universal WB Primer 3.0-4.0 (75 - 100)Minimum recommended surface preparation: 1-2 cts. Waterbased Tile-Clad Epoxy Finish 2.0-4.0 (50-100)SSPC-SP2 SSPC-SP1 SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3 Clean, smooth, dust free Iron & Steel: Galvanizing: Concrete & Masonry: Steel: 1 ct. Recoatable Epoxy Primer 4.0-6.0 (100-150)Wood, interior: 1-2 cts. Waterbased Tile-Clad Epoxy Finish 2.0-4.0 (50-100)Primer recommended Surface Preparation Standards Condition of Surface ISO 8501-1 BS7079:A1 Swedish Std. SIS055900 Concrete/Masonry: SSPC NACE Sa 3 Sa 2.5 Sa 2 Sa 1 C St 2 D St 2 C St 3 SP 5 SP 10 SP 6 SP 7 SP 2 SP 2 SP 3 White Metal Near White Metal Commercial Blast Brush-Off Blast Sa 3 Sa 2.5 Sa 2 Sa 1 Cement-Plex 875 13.0-25.0 (325-625)1 ct. 2 3 4 (as required to fill voids and provide a continuous surface) C St 2 D St 2 C St 3 Rusted Pitted & Rusted Hand Tool Cleaning Other acceptable surfacers are: Rusted Power Tool Cleaning Pitted & Rusted ň St Ξ'n Heavy Duty Block Filler Kem Cati-Coat HS Epoxy Filler/Sealer TINTING Topcoat 1-2 cts. Waterbased Tile-Clad Epoxy Finish 2.0 - 4.0(50-100)Tint Part A with EnviroToner Colorants at 100% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing Concrete, smooth: of color 2 cts. Waterbased Tile-Clad Epoxy Finish 2.0-4.0 (50-100)Do not use Blend-A-Color Toner. Galvanized Steel: 1 ct Waterbased Tile-Clad Epoxy Primer 2 0-4 0 (50-100)**APPLICATION CONDITIONS** 1-2 cts. Waterbased Tile-Clad Epoxy Finish 2 0-4 0 (50-100)Temperature: 50°F (10°C) minimum, 100°F (38°C) Drywall: maximum 1 ct. ProMar 200 Interior Latex Primer 1.0-1.4 (25-35) (air, surface, and material) Àt least 5°F (2.8°C) abové dew point 85% maximum 2 cts Waterbased Tile-Clad Epoxy Finish 2.0-4.0 (50-100)Relative humidity: Refer to product Application Bulletin for detailed application information. **O**RDERING **I**NFORMATION Packaging: 5 gallons (18.9L) mixed 4 gallons (15.1L) in a 5 gallon (18.9L) can and 1 gallon (3.78L) Part A: 1 gallon (3.78L) and 1 quart (0.94L) Part B. 10.5 ± 0.2 lb ; 1.26 Kg/L, mixed Weight per gallon: **SAFETY PRECAUTIONS** Refer to the MSDS sheet before use The systems listed above are representative of the product's use, Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions. other systems may be appropriate. DISCLAIMER WARRANTY The Sherwin-Williams Company warrants our products to be free of manufactur-ing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defec-tive 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 MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. 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.

COMP	Protective WAT & Marine	WATERBASED TILE-CLAD® EPOXY FINISH			
SHERWIN WILLIAMS.	Coatings	Part A Part B	B73-100 B73V100	Series Hardener	
Revised Nov 25,	2015 APPLICATIO	ON BULLETIN		4.19	
	Surface P REPARATIONS	Application Conditions			
Surface must be c oil, dust, grease, ensure adequate a	lean, dry, and in sound condition. Remove all dirt, loose rust, and other foreign material to adhesion.	Temperature:	50°F (10°C) mir maximum (air, surface, and At least 5°F (2.8	nimum, 100°F (38°C) d material) °C) above dew point	
Do not use hydro	carbon solvents for cleaning.	Relative humidity:	85% maximum		
Iron & Steel Minimum surface p Remove all oil and SSPC-SP1 (recor better performance SP6/NACE 3, bla abrasive for optim any bare steel with required. Masonry and Blo	preparation is Hand Tool Clean per SSPC-SP2. I grease from surface by Solvent Cleaning per nmended preparation is Steam Cleaning). For e, use Commercial Blast Cleaning per SSPC- st clean all surfaces using a sharp, angular um surface profile (2 mils / 50 microns). Prime in 8 hours or before flash rusting occurs. Primer	APPLICATION EQUIPMENT 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.			
For surface prepar 310.2R, CSP 1-3. Concrete and morta Remove all loose free of laitance, co curing membranes pockets and other v and soft or porous tool cleaned to ren to a hard, firm surf	ation, refer to SSPC-SP13/NACE 6, or ICRI No. Surfaces should be thoroughly clean and dry. ar must be cured at least 28 days @ 75°F (24°C). mortar and foreign material. Surface must be ncrete dust, dirt, form release agents, moisture , loose cement and hardeners. Fill bug holes, air oids with Cement-Plex 875. Weathered masonry cement board must be brush blasted or power nove loosely adhering contamination and to get ace. Laitance must be removed.	Reducer/Clean Up Water Airless Spray Pressure			
Galvanized Steel Allow to weather a all oil, grease, dird Cleaning per SSF Cleaning). When y been treated with SSPC-SP1 (recor apply a test patch. ing adhesion. If ad necessary to remo a minimum of Ham the same day as c Previously Painte If in sound condit Smooth, hard or gl abrading the surfa week before testing attacks the previou necessary. If paint	minimum of six months prior to coating. Remove c, oxide and other foreign material by Solvent PC-SP1 (recommended preparation is Steam weathering is not possible, or the surface has chromates or silicates, first Solvent Clean per nmended preparation is Steam Cleaning) and Allow paint to dry at least one week before test- hesion is poor, brush blasting per SSPC-SP7 is ve these treatments. Rusty galvanizing requires d Tool Cleaning per SSPC-SP2, prime the area leaned. ed Surfaces ion, clean the surface of all foreign material. ossy coatings and surfaces should be dulled by ce. Apply a test area, allowing paint to dry one g adhesion. If adhesion is poor, or if this product s finish, removal of the previous coating may be is peeling or badly weathered, clean surface to ad troat as a now surface or as house	Conventional Spray Gun DeVilbiss MBC-510 Fluid Tip E Air Nozzle 704 Atomization Pressure 40-60 psi Fluid Pressure 10-20 psi Reduction As needed up to 10% by volume Brush Nylon/Polyester Reduction Not recommended Roller Cover Reduction Not recommended			
SOUND SUDSTRATE AN White Metal Near White Metal Commercial Blast Brush-Off Blast Hand Tool Cleaning Power Tool Cleaning Pt	The treat as a new sufface as above. Surface Preparation Standards Inface BS7079:A1 St055900 SSPC NACE Sa 3 Sa 3 SP5 1 Sa 2.5 Sa 2.5 SP 10 2 Sa 2 Sa 2 SP 6 3 Sa 4 Sa 1 SP 7 4 CSt 2 CSt 2 SP 2 - ted & Rusted D St 2 D St 2 SP 2 - Isted CSt 3 CSt 3 SP 3 - Isted D St 3 D St 3 SP 3 -	If specific application equipment may be	on equipment is not liste substituted.	ed above, equivalent	

COVER	Protective &	WAT	ERBAS	ED TILE	-CLAD® (Y FINISH
	Marine				
SHERWIN WILLIAMS.	Coatings		Part A Part B	B73-100 B73V100	Series Hardener
Revised Nov 25,	2015		N BULLETIN	N	4.19
A	PPLICATION P ROCEDURE	s		PERFORMANCE TIP	S
Surface preparati	on must be completed as in	dicated.	Stripe coat all crev failure in these are	vices, welds, and sharp a eas.	ngles to prevent early
Mix contents of each component thoroughly using low speed 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. Allow the material to sweat-in as indicated prior to application. Re-stir before using.			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 po-		
If reducer is used, add only after both components have been thoroughly mixed after sweat-in			rosity of the surface of application, var	e, skill and technique of t to surface irregularities	he applicator, method s, material lost during
Apply paint at the recommended film thickness and spreading rate as indicated below:			mixing, spillage, overthinning, climatic conditions, and excessiv film build.	litions, and excessive	
Recommended Spreading Rate per coat:			Excessive reduction of material can affect film build, appearance and adhesion.		
	Minimum	Maximum	Do not mix previou	usly catalyzed material wi	th new.
Wet mils (micros	ns) 4.5 (112) ns) 2.0 (50)	9.0 (225) 4.0 (100)	Do not apply the r	naterial beyond recomme	nded pot life.
~Coverage sq f Theoretical covera (m ² /L) @ 1 mil / 25	t/gal (m²/L) 176 (4.3) ige sq ft/gal 704 (17.2)	352 (8.6)	In order to avoid I before use or before	blockage of spray equipmore periods of extended do	ient, clean equipment owntime with water.
NOTE: Brush o achieve maximu	or roll application may require m m film thickness and uniformity	ultiple coats to of appearance.	Do not use hydro	ocarbon solvents for cle	aning.
Drying Sche	edule @ 5.0 mils wet (125	i microns):			
	@ 50°F/10°C @ 77°F/25°C 50% RH	@ 100°F/38°C			
To touch: To handle: To recoat:	1.5 hours45 minutes5.5 hours4.5 hours	25 minutes 2 hours			
minimum: maximum: To cure: If maximum recoat t Drying time is temp	8 hours 6 hours 30 days 30 days 7 days 7 days time is exceeded, abrade surface perature, humidity, and film thick	3 hours 30 days 7 days e before recoating. mess dependent.			
Sweat-in-time:	30 minutes 30 minutes	10 minutes	Refer to Product	Information sheet for add	ditional performance
Application of co recommended sp performance.	ating above maximum or preading rate may adverse	below minimum ly affect coating	characteristics ar	SAFETY PRECAUTION	NS
	LEAN LID INSTRUCTIONS	<u>.</u>	Refer to the MSDS sh	eet before use.	
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.			Published technical da Contact your Sherwin instructions.	ata and instructions are subjec -Williams representative for ad	t to change without notice. ditional technical data and
				WARRANTY	
Disclaimer			The Sherwin-Williams	Company warrants our products	to be free of manufacturing
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