COVER	Armo			ARMORS	SEAL® 1	000 HS
	Hea Duty H	•				
SHERWIN WILLIAMS.	Coati			Part A Part B	B67-2000 B67V2002	Series Hardener
Revised 11/10		Р	RODUCT I	NFORMATION		8.22
	Product L	Description		R	ecommended Us	ES
ARMORSEAL 1000 HS is a high solids, heavy duty, two-compo- nent, catalyzed, polyamide epoxy coating formulated for demanding marine and industrial requirements. Dries rapidly to a tough, high gloss finish with excellent resistance to alkalies, abrasion, corro- sion, and chemical attack. • Chemical Resistant • Impact Resistant • Abrasion Resistant • Outstanding application properties				 For industrial, commercial, or marine applications where a heavy duty epoxy coating is required. Superior resistance to chemicals, moisture, abrasion, and impact Meets ADA requirements for slip resistance for floors Excellent resistance to alkalies, dilute acids, spillage of solvents, chemicals, jet fuel, grease, etc. 		
PR	орист Сн	ARACTERISTIC	S	 Clear finish for interior use only Suitable for use in USDA inspected facilities 		
Finish:	Glos	S		PERFORMANCE CHARACTERISTICS		
Volume Solids mixed: colors - 65% + 2%			Surface Preparation	Substrate*: Concrete Surface Preparation*: Clean, dry, sound		
may vary by color clear - 61% ± 2%			System Tested*: 1 ct. ArmorSeal 100 1 ct. ArmorSeal 100	00 HS (reduced) 00 HS @ 3.0-5.0 mils elow	(75-125 microns) dft	
Weight Solids, mi		± 2%, may vary		*unless otherwise noted be	elow	х , , , , , , , , , , , , , , , , , , ,
VOC (EPA Method colors clear	Unre <400	duced: <340 g/L; 3.33 lb/gal	g/L; 2.8 lb/gal	Test Name	Test Method	Results
Mix Ratio:	1:1 b	y volume		Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 Kg load	64.8 mg loss
Recomm	ended Spre	<u>ading Rate pe</u> Minimum	Maximum	Adhesion, over concrete	ASTM D4541	350 psi, 100% con- crete failure
Wet mils (micror Dry mils (micror	is)	5.0 (125) 3.0 (75)	8.0 (200) 5.0 (125)	Direct Impact Resistance (steel)	ASTM D2794	58 in. lbs
Coverage sq ft/gal (m²/L) 206 (5.0 Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft 1040 (25.0		206 (5.0) 1040 (25.5)	350 (8.6)	Dry Heat Resistance	ASTM D2485	180°F (82°C)
NOTE: Brush o	r roll applicatio	on may require mu is and uniformity o		Flexibility (steel)	ASTM D522, 180° bend, 1/8" mandrel	Passes
Drving Sc	hedule @ 6	.0 mils (150 m	icrons).	Pencil Hardness	ASTM D3363	НВ
	@ 50°F/10°C 4 hours	@ 77°F/25°C 50% RH 2 hours	@ 120°F/49°C 30 minutes	Slip Resistance, Floors	ASTM C1028-96, .60 minimum Static Coefficient of Fric- tion	Passes wet and dry, with and without SharkGrip Additive
To recoat: minimum: maximum: Foot traffic: Heavy traffic: To cure: If maximum recoat the Drying time is temp Pot Life:				Epoxy coatings may da	1	application and curing.
Sweat-in-Time:	2 hours	30 minutes	10 minutes			
Shelf Life:		36 months, uno Store indoors at 100°F (38°C)	pened 40°F (4.5°C) to			
Flash Point: Reducer/Clean	Up:	>105°F (41°C), Reducer #54, R				



ARMORSEAL® 1000 HS

PART A	В
Part B	В

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SERIES HARDENER

PRODUCT INFORMATION

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Recommended System	S	SURFACE PREPARATION		
Concrete/Wood: 1 ct. ArmorSeal 1000 HS (reduced as necessary up to 1 pt/gal v	n Thickness / ct. <u>fils (Microns)</u> vith R7K54)* .0-5.0 (75-125)	Surface must be clean, dry, and in sound condition. Remove a oil, dust, grease, dirt, loose rust, and other foreign material t ensure adequate adhesion. Refer to product Application Bulletin for detailed surface prepar- tion information. Minimum recommended surface preparation: * Iron & Steel: SSPC-SP6/NACE 3 Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3		
1 ct. ArmorSeal 33 Epoxy Primer/Sealer 8	.0 (200) .0-5.0 (75-125)	Wood, interior: Clean, smooth, dust free *Primer Required Surface Preparation Standards Condition of Surface ISO 8501-1 Swedish Std. SSPC NACE White Metal Sa 3 Sa 3 Near White Metal Sa 2.5 Sa 2.5		
1-2 cts. ArmorSeal 1000 HS 3	.0-5.0 (100-125) .0-5.0 (75-125)	Near White MetalSa 2.5Sa 2.5SP 102Commercial BlastSa 2Sa 2Sa 2Sa 2Brush-Off BlastSa 1SP 63Hand Tool CleaningRustedC St 2C St 2SP 2Power Tool CleaningPitted & RustedD St 3D St 3SP 3		
Painted Surfaces in Sound Condition:1-2 cts. ArmorSeal 1000 HS3	.0-5.0 (75-125)	Τιντινς		
*Any reduction must be compliant with existir and compatible with the existing environment conditions.		White and Ultradeep may be tinted with Maxitoner Colorants 200% tinting strength into Part A. Five minutes minimum mixing a mechanical shaker is required for complete mixing of color.		
		Application Conditions		
The systems listed above are representative of other systems may be appropriate.	the product's use,	Temperature: 50°F (10°C) minimum, 120°F (49°C maximum (air, surface, and material) At least 5°F (2.8°C) above dew poir 85% maximum Relative humidity: 85% maximum		
		Refer to product Application Bulletin for detailed application information		
		Packaging: Part A: 1 gallon (3.78L) containers Part B: 1 gallon (3.78L) containers (clear available in 5 gallon /18.9L containers)		
		Weight: 12.51 ± 0.2 lb/gal ; 1.5 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 noti Contact your Sherwin-Williams representative for additional technical data a instructions.		
		WARRANTY		
DiscLAIMER The information and recommendations set forth in this P based upon tests conducted by or on behalf of The Sherv Such information and recommendations set forth herein are pertain to the product offered at the time of publication. Williams representative to obtain the most recent Product Application Bulletin.	vin-Williams Company. e subject to change and Consult your Sherwin-	The Sherwin-Williams Company warrants our products to be free of manufact ing defects in accord with applicable Sherwin-Williams quality control procedur Liability for products proven defective, if any, is limited to replacement of the def tive product or the refund of the purchase price paid for the defective product determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANT OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIE STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING ME CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.		

Cover	ArmorSea	1			RSEAL®	[®] 1000 HS
EARTH	Heavy Duty Floor	ſ				
Sherwin Williams.	Coatings			Part A Part B	B67-2000 B67V2002	Series Hardener
Revised 11/10				N BULLETII	N	8.22
9	SURFACE PREPAR	ATIONS			APPLICATION CO	NDITIONS
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.			Temperature:	maximum (air, surfac	C) minimum, 120°F (49°C) ce, and material) 'F (2.8°C) above dew point	
Iron & Steel (atmospheric service) Remove all oil and grease from surface by Solvent Cleaning per			ning per	Relative humidity	r: 85% maxii	mum
SSPC-SP1. Minim	num surface preparat	tion is Commerci	al Blast	APPLICATION EQUIPMENT		
Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.			2. Blast ptimum	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		
Concrete and Masonry For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910.			existing environmental and application conditions. Reducer/Clean UpReducer #54, R7K54 Airless Spray Pressure			
Primer required. Follow the standard methods listed below when applicable: ASTM D4258 Standard Practice for Cleaning Concrete. ASTM D4259 Standard Practice for Abrading Concrete. ASTM D4260 Standard Practice for Etching Concrete. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete. SSPC-SP 13/Nace 6 Surface Preparation of Concrete. ICRI No. 310.2 Concrete Surface Preparation.			Brush Nylon/Polyeste Reduction	er or Natural Bristle As needed	d up to 10% by volume d up to 10% by volume n with solvent resistant core	
						d up to 10% by volume
Previously Painted Surfaces If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.			If specific application equipment is not listed above, equivalent equipment may be substituted.			
Co Su White Metal Near White Metal Commercial Blast Brush-Off Blast	Surface Preparation Stan prdition of ISO 8501-1 Irface BS7079:A1 Sa 3 Sa 2.5 Sa 2 Sa 2 Sa 1 Isted CSt 2 ted & Rusted DSt 2 Isted CSt 3 Isted CSt 3 Isted DSt 3	ndards Swedish Std. SIS055900 SSPC Sa 2.5 SP 10 Sa 2 SP 6 Sa 1 SP 7 C St 2 SP 2 D St 2 SP 2 C St 3 SP 3 D St 3 SP 3	NACE 1 2 3 4 - -			



ARMORSEAL® 1000 HS

Part A	B67
PART B	B67

′-2000 ′V2002 Series Hardener

APPLICATION BULLETIN

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Application 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. Combine one Part A with one Part B by volume and mix for 3 minutes and until uniform. Allow the material to sweat-in as indicated. 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.	
Apply paint at the recommended film thickness and spreading rate as indicated below:	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	
Recommended Spreading Rate per coat:	of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive	
Minimum Maximum	film build.	
Wet mils (microns) 5.0 (125) 8.0 (200)		
Dry mils (microns) 3.0 (75) 5.0 (125) ~Coverage sq ft/gal (m²/L) 206 (5.0) 350 (8.6)	No reduction of material is recommended as it can affect film build, appearance, and adhesion.	
Theoretical coverage sq ft/gal 1040 (25.5) (m²/L) @ 1 mil / 25 microns dft	Do not apply the material beyond recommended pot life.	
NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.	Do not mix previously catalyzed material with new.	
Drying Schedule @ 6.0 mils (150 microns): @ 50°F/10°C @ 77°F/25°C @ 120°F/49°C	In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #54, R7K54	
50% RH		
To touch: 4 hours 2 hours 30 minutes	Material can not be sprayed if anti-slip aggregate is use.	
To recoat:minimum:24 hours8 hours4 hoursmaximum:7 days7 days7 daysFoot traffic:48 hours24 hours12 hours	Anti-slip additives, such as H&C SharkGrip [®] , may be added to the coating to provide some slip resistance. This product should not be used in place of a non-skid finish.	
Heavy traffic:45 hours24 hours12 hoursHeavy traffic:4-5 days48-72 hours24-36 hoursTo cure:10 days7 days4 daysIf maximum recoat time is exceeded, abrade surface before topcoating.	Anti-slip additive may be mixed into the final coat just prior to ap- plication. Exception: if anti-slip is desired with Clear finish, it should be hand broadcast.	
Drying time is temperature, humidity, and film thickness dependent. Pot Life: 6 hours 4 hours 2 hours	Prime coat for concrete may be reduced up to 1 pint per gallon.	
Sweat-in-Time: 2 hours 30 minutes 10 minutes	Clear is for interior use only.	
Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.	Refer to Product Information sheet for additional performance characteristics and properties.	
	SAFETY PRECAUTIONS	
	Refer to the MSDS sheet before use.	
CLEAN UP INSTRUCTIONS	Published technical data and instructions are subject to change without notice.	
Clean spills and spatters immediately with Reducer #54, R7K54. Clean tools immediately after use with Reducer #54, R7K54. Follow manufacturer's safety recommendations when	Contact your Sherwin-Williams representative for additional technical data and instructions.	
using any solvent.	WARRANTY	
Disclaimer	The Sherwin-Williams Company warrants our products to be free of manufacturing	
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