COVER	Heav Duty Fl	y oor	RMORS	SEAL HS	POLYURI FLOOR	ETHANE ENAMEL	
Sherwin Williams.	Coatin	gs		Part A Part B	B65-220 B65V220	Series Hardener	
Revised: March	24, 2022	PR	ODUCT I	NFORMATIO	N	8.46	
Pi	RODUCT DE	SCRIPTION	1	Re	COMMENDED U	SES	
 ARMORSEAL HS POLYURETHANE FLOOR ENAMEL is a heavy duty, two component, exterior/interior, high solids, polyester-aliphatic urethane industrial floor coating. Provides a high gloss, excellent chemical resistance, color retention, and chalk resistance. Outstanding resistance a wide range of chemical, weather, and mechanical conditions Abrasion and impact resistant Superior exterior color and gloss retention Outstanding application properties 				 For industrial, commercial, or marine floor use where a heavy duty polyurethane floor coating is required For use over prepared concrete and steel Resists splash, spillage, and fumes of dilute acids, alkalies, solvents, and fuels Exterior floors (helipads) Auto service centers, computer rooms Airport hangars (skydrol resistance) 			
	DUCT CHAR		ICS	Suitable for use in	USDA inspected facilit	ties.	
Finish:	Gloss			Perform	Performance Characteristics		
Color:		ange of colors a					
Volume Solids: Weight Solids:			ay vary by color ay vary by color	Test Name	Test Method	Results	
VOC (EPA Method Mix Ratio:		/L; 2.1 lb/gal, n		Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	63 mg loss (average of 5 trials)	
	ended Spread		r coat: Maximum 4.5 (112)	Adhesion, steel (epoxy primer)	ASTM D3359 Method B; ASTM D4541	5B, 100% Retention (ASTM D3359); 1200 psi (ASTM D4541)	
Dry mils (micror ~Coverage sq f Theoretical covera (m²/L) @ 1 mil / 25	t/gal (m²/L) ge sq ft/gal 5 microns dft	2.0(50)380(9.3)1136(27.8)	3.0 (75) 570 (14.0)	Adhesion, concrete (epoxy primer) Direct Impact	ASTM D4541	350 psi, 100% concrete failure	
NOTE: Brush o achieve maximu	or roll application i m film thickness a	may require mu and uniformity o	ltiple coats to f appearance.	Resistance	ASTM D2794	100 in. lb.	
Drying Sch	edule @ 3.0 n	nils wet (75 r	nicrons):	Dry Heat Resistance	ASTM D2485	200°F (93°C), 250°F (121°C) intermittent	
	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 100°F/38°C	Exterior Durability	2 years at 45° South	Excellent, 87% gloss retention	
To touch: To handle:	16 hours 24 hours	2 hours 10 hours	30 minutes 2 hours	Flexibility	ASTM D522, 180° bend, 1/4" mandrel	Passes	
foot traffic: heavy traffic: To recoat:	24 hours 5 days 24 hours	12 hours 72 hours 12 hours	8 hours 48 hours 2 hours	Humidity Resistance	ASTM D4585, 100°F (38°C), 2000 hours	No blistering, cracking, softening or delamination	
minimum: maximum:	3 days	48 hours	2 hours 24 hours	Pencil Hardness	ASTM D3363	H	
To cure: If maximum recoat if Drying time is temp Pot Life: Sweat-in-Time: Shelf Life:	7 days time is exceeded, perature, humidity 5 hours N	7 days abrade surface i	5 days before recoating. ress dependent. 45 minutes hs. unopened	Salt Fog Resistance, with primer	ASTM B117, 1000 hours	Rating 10 per ASTM D610 for rusting, less than 1/16" creepage at scribe. No blistering, cracking, softening, or delamination of the film.	
Flash Point: Reducer*: Clean Up:	S 1 1 V R	Store indoors at 00°F (38°C) 02°F (39°C), T	:40°F (4.5°C) to CC, mixed Areas (<250 g/L): commended	Slip Resistance, Floors	ASTM C1028**, .60 Minimum Static Co- efficient of Friction	Passes wet and dry without SharkGrip Additive, and dry with SharkGrip Additive	
*Other areas (<340 g Choose a reducer that and local air quality rul	/L): Reducer R6K30 t is compliant in your) or R7K225 up to	5% by volume.	**Test method withdra	awn in 2014 without rep	lacement	

	COVER EARTH EARTH	Heavy Duty Floo	r	MORS	SEAL HS		RETHANE R ENAMEL
She Wil	RWIN LIAMS。	Coatings	•		Part A Part B	B65-220 B65V220	Series Hardener
Revis	sed: March	24, 2022	Proc	DUCT IN	FORMATIC	ON	8.46
	RE	COMMENDED S	Systems		S	URFACE PREPAR	ATION
Concrete/Wood: 1 ct. ArmorSeal 1000HS (reduced		<mark>Mils</mark> 1 pt/gal with F	,	Surface must be clean, dry, and in sound cond oil, dust, grease, dirt, loose rust, and other fo ensure adequate adhesion.		ther foreign material to	
2 cts. Steel: 1 ct. 2 cts.	Floor Ena Recoatab	le Epoxy Primer Il HS Polyurethane	2.0-3.0 4.0-5.0 2.0-3.0	(50-75) (100-125) (50-75)		ended surface prepara SSPC-SP6/N	VACE 6, or ICRI
Painted Surfaces in Sound Condition:1-2 cts. ArmorSeal HS Polyurethane2.0-3.0 (50-75)Floor EnamelFloor EnamelThe systems listed above are representative of the product's use, other systems may be appropriate.			S White Metal Near White Metal Commercial Blast Brush-Off Blast Hand Tool Cleaning	urface BS7079:A1 Sa 3 Sa 3 Sa 2.5 Sa 1 St 2.5 Sa 1 Sa 1 <td>dards Swedish Std. SIS055900 SSPC Sa 3 SP 5 Sa 2.5 SP 10 Sa 2.5 SP 6 Sa 1 SP 7 Sa 2.5 SP 7 Sa 1 SP 7 Sa 2 SP 2 Cst 2 SP 2 St 2 SP 3 O St 3 SP 3</td>	dards Swedish Std. SIS055900 SSPC Sa 3 SP 5 Sa 2.5 SP 10 Sa 2.5 SP 6 Sa 1 SP 7 Sa 2.5 SP 7 Sa 1 SP 7 Sa 2 SP 2 Cst 2 SP 2 St 2 SP 3 O St 3 SP 3		
	,	,			I base and ultradee	p tint base only). Five i	% tint strength (white tint minutes minimum mixing omplete mixing of color.
						PLICATION CON	
					Temperature: Relative humidity:	maximum (air, surface, a At least 5°F (2	2.8°C) above dew point
					Refer to product Ap	plication Bulletin for detail	ed application information.
					O	RDERING INFORM	IATION
					Packaging: Part A: Part B:	1 gal (3.78L) 1 gal (3.78L)	and 5 gal (18.9L) and 5 gal (18.9L)
					Weight:	10.45 ± 0.2 lb may vary with	/gal ; 1.25 Kg/L mixed, color
						SAFETY PRECAUT	TIONS
						ata and instructions are sub	ject to change without notice. additional technical data and
						WARRANTY	
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.				iams Company. ct to change and t your Sherwin-	ing defects in accord w Liability for products pr tive product or the refi determined by Sherw OF ANY KIND IS MAE STATUTORY, BY OPI	vith applicable Sherwin-Willia oven defective, if any, is limite und of the purchase price pa in-Williams. NO OTHER W DE BY SHERWIN-WILLIAMS	Jucts to be free of manufactur- ims quality control procedures. ed to replacement of the defec- id for the defective product as ARRANTY OR GUARANTEE S, EXPRESSED OR IMPLIED, ERWISE, INCLUDING MER- LAR PURPOSE.

Heavy Duty Floor	RSEAL HS POLYURETHANE FLOOR ENAMEL			
SHERWIN WILLIAMS. Coatings	Part A Part B	B65-220 B65V220	Series Hardener	
Revised: March 24, 2022 APPLICATIO	N BULLETI	N	8.46	
SURFACE PREPARATIONS	Appl	ICATION COND	ITIONS	
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, surface, ai	ninimum, 100°F (38°C) nd material) 8°C) above dew point	
Iron & Steel Remove all oil and grease from surface by Solvent Cleaning per	Relative humidity:	75% maximum	I	
SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use	APPLICATION EQUIPMENT			
Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (1-2 mils / 25-50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs. Primer Required.	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.			
Concrete and Masonry For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, 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. Primer required. Follow the standard methods listed below when applicable: ASTM D4258 Standard Practice for Cleaning Concrete.	Reducer* VOC Restricted Areas (<250 g/L):			
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. 310.2R Concrete Surface Preparation.	Tip Filter Reduction Conventional Spray Gun Cap	60 mesh Not recommen Binks 95	ded	
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 products 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.	Tip Atomization Pressu Fluid Pressure Reduction Brush Brush	66 ıre50 - 60 psi		
Surface Preparation StandardsCondition of SurfaceSwedish Std. Silo55900White MetalSa 3Sa 3Sa 3SP 51Near White MetalSa 2.5Sa 2.5SP 102Commercial BlastSa 2SP 63Brush-Off BlastSa 1Sa 1Sa 2SP 2Hand Tool CleaningRustedC St 2D St 2SP 2Power Tool CleaningRustedC St 3SP 3-	Reduction	Not recommen	h solvent resistant core ded sted above, equivalent	

	Armoi	Sool A				RETHANE
COVER EARTH	Hear					RENAMEL
	Duty F	•			I LOOI	
SHERWIN						
WILLIAMS .	Coau	ngs		Part A Part B	B65-220 B65V220	Series Hardener
Revised: March	24, 2022	ΑΡ	PLICATIC	N BULLET	IN	8.46
App	LICATION	Proceduri	ES		Performance	Tips
Surface preparatio				Stripe coat all crev failure in these are		p angles to prevent early
Mix contents of eac agitation. Make ce can. Then combin by volume of Part agitation. Allow the	rtain no pigm te two parts b B. Thorough material to sw	ent remains on the volume of Part y volume of Part y agitate the mix reat-in as indicate	A with one part ture with power d. Re-stir before	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.		
ušing. If reducer is used, thoroughly mixed. If an anti-slip finish coat just prior to a with Clear finish, it recommended for t	n is desired, th pplication. (E) should be har the final coat v	ne additive is mix KCEPTION: If an nd broadcast). A when anti-slip ag	ed into the final ti-slip is desired 3/4" pile roller is gregate is used.	an application loss rosity of the surfac of application, var mixing, spillage, o film build.	a factor due to surface e, skill and technique ious surface irregulari verthinning, climatic co	solids and do not include profile, roughness or po- of the applicator, method ties, material lost during onditions, and excessive
Apply paint at the rate as indicated b	recommende pelow:	ed film thickness	and spreading		on of material can affect intially cause color floa	ct film build, appearance at.
Recomm	ended Spre	ading Rate pe	r coat:	Do not apply the m	naterial beyond recom	mended pot life.
	-	Minimum	Maximum	Do not mix previou	usly catalyzed material	with new.
Wet mils (micror Dry mils (micror ~Coverage sq f	ns) t/gal (m²/L)	3.0 (75)2.0 (50)380 (9.3)	4.5 (112) 3.0 (75) 570 (14.0)	In order to avoid b before use or befo R6K30 or R7K225	lockage of spray equi re periods of extended	pment, clean equipment downtime with Reduce
Theoretical covera (m²/L) @ 1 mil / 25	ge sq ft/gal microns dft	1136 (27.8)		Mixed coating is se	ensitive to water. Use v an reduce pot life and	vater traps in all air lines affect gloss and color.
NOTE: Brush o achieve maximul	r roll applicatio m film thicknes	n may require mu s and uniformity o	ltiple coats to f appearance.		-	only a light nonslip tex-
		mils wet (75 r		safety is a concerr	1.	
	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 100°F/38°C		sprayed if anti-slip ag	
To touch:	16 hours	2 hours	30 minutes		will require a high bui	·
To handle: foot traffic: heavy traffic:	24 hours 24 hours 5 days	10 hours 12 hours 72 hours	2 hours 8 hours 48 hours	marks. Roll as clos visual imperfection	oduct, always maintain se to any cut-in areas is. Roller application n material onto the surfa	a wet edge to avoid roller as possible to eliminate nust be from a roller tray ace.
To recoat: minimum: maximum: To cure: If maximum recoat t	24 hours 3 days 7 days time is exceede	12 hours 48 hours 7 days d. abrade surface	2 hours 24 hours 5 days before recoating.	Coated surfaces r migration.	nay discolor under tir	es due to tire plasticizer
Drying time is temp Pot Life: Sweat-in-Time:			•	Refer to Product I characteristics an		additional performance
Application of co recommended sp	ating above preading rate	maximum or b may adversely	elow minimum	S	AFETY PRECAU	TIONS
performance.				Refer to the SDS shee	t before use.	
Clean spills and s R7K225. Clean too or R7K225. Follow	patters imme	lv after use with	ucer R6K30 or Reducer R6K30			pject to change without notice additional technical data and
using any solvent.					WARRANTY	·
The information and re based upon tests cond Such information and re pertain to the product of Williams representative Application Bulletin.	ucted by or on be ecommendations offered at the tim	set forth in this Proc shalf of The Sherwin set forth herein are su e of publication. Co	-Williams Company. ubject to change and nsult your Sherwin-	defects in accord with Liability for products pr fective product or the as determined by Shen OF ANY KIND IS MAD STATUTORY, BY OPE	applicable Sherwin-Williar oven defective, if any, is lin efund of the purchase price win-Williams. NO OTHER V E BY SHERWIN-WILLIAMS	ucts to be free of manufacturing ms quality control procedures nited to replacement of the de- paid for the defective product VARRANTY OR GUARANTEE S, EXPRESSED OR IMPLIED HERWISE, INCLUDING MER- LAR PURPOSE.