COVER	ArmorSeal Heavy Duty Floor	EPC	ARMORSEAL [®] 33 XY PRIMER/SEALER		
SHERWIN WILLIAMS.	Coatings		Part A Part A Part B	B58AQ33 B58CQ33 B60VQ33	Light Gray Clear Hardener
Revised: Octobe	PRODU	ICT IN	FORMATIO	N	8.20
Pi	RODUCT DESCRIPTION		Re	COMMENDED	Uses
high solids, high b under ArmorSeal 6 primer/sealer enha substrate and help	EPOXY PRIMER/SEALER is a low uild, fast cure, epoxy primer designe 50 or where a high build primer is nee nces adhesion by penetrating into the s reduce bubbling and pinholes that m us surfaces with high build coatings.	d for use ded. This concrete	file Use when a pigme For industrial, com For use as part of t cast color quartz s 	mer prous concrete or o ented primer is requ mercial, and marine he ArmorQuartz sys	e applications stem, a decorative broad
Pro	duct Characteristics		Perform	MANCE CHARA	CTERISTICS
Finish:	Gloss		Abrasion resistant		
Color:	Light Gray, Clear		• Fast dry		
Volume Solids:	100%, mixed		Chemical resistant	:	
VOC (EPA Method	1 24): <50 g/l; 0.42 lb/gal, mixed		Impact resistant		
Mix Ratio:	2 components, premeasured 2.85:1 by volume	b	Low odor		
Recomm Wet mils (micror Dry mils (micror ~Coverage sq fi	ns) 7.0 (175) 9.0 ns) 7.0 (175) 9.0	kimum) (225)) (225)	 100% solids Dry heat resistanc	e: 180°F (82°C)	
Theoretical covera	ge sq ft/gal) (5.6)	Test Name	Test Method	Results
(m²/L) @ 1 mil / 25 NOTE: Apply by s	queegee or roller only.		Adhesion	ASTM D4541	350 psi, 100% Concrete Failure
Drying Sche	edule @ 8.0 mils wet (200 micro @ 72°F/22°C	<u>ns):</u>	Compressive Strength	ASTM D695	~9,000 psi
	50% RH		Flexural Strength	ASTM D790	~6,000 psi
To touch: To recoat:	4-6 hours		Hardness	ASTM D2240	65-75
minimum: maximum: To cure: If maximum recoat t	6 hours 24 hours 7 days ime is exceeded, abrade surface before to perature, humidity, and film thickness dep 30 minutes None required 36 months, unopened Store indoors at 40°F (4 100°F (38°C) >200°F (93°C), PMCC Not recommended Reducer #54, R7K54	4.5°C) to	Tensile Strength	ASTM D638	~3,000 psi

ArmorSeal	AF	RMORSI	EAL [®] 33
Heavy	EPOXY PF	RIMER/S	EALER
Duty Floor Coatings	Part A Part A Part B	B58AQ33 B58CQ33 B60VO33	LIGHT GRAY CLEAR

PART A PART A PART B B58AQ33 B58CQ33 B60VQ33

LIGHT GRAY CLEAR HARDENER

PRODUCT INFORMATION

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Recommended Systems				SURFACE PREPARATION		
Concre	-	Film Th <u>Mils</u>	nickness / ct. (Microns)		dry, and in sound condition. Remove all ose rust, and other foreign material to	
1 ct. 1 ct.	ArmorSeal 33 Epoxy Primer/Sealer ArmorSeal 650 SL/RC	7.0-9.0 10.0) (175-225) (250)	ensure adequate adhesic	on.	
Concre	te:			formation.	etin for detailed surface preparation in-	
1 ct. 1 ct.	ArmorSeal 33 Epoxy Primer/Sealer ArmorSeal 650 SL/RC	7.0-9.0 30.0) (175-225) (750)	Minimum recommended s Concrete & Masonry:	SSPC-SP13/NACE 6, or ICRI	
Concre	te:			Surface	No. 310.2R, CSP 1-3	
1 ct.	ArmorSeal 33 Epoxy Primer/Sealer	7.0-9.0	(175-225)	Condition	e Preparation Standards of ISO 8501-1	
1-2 cts.	ArmorSeal 1000 HS Epoxy) (75-125) ′	Surface White Metal Near White Metal Commercial Blast	BS7079:A1 SSPC NACE Sa 3 SP 5 1 Sa 2.5 SP 10 2 Sa 2 SP 6 3 Sa 1 SP 7 4	
Concre				Brush-Off Blast Hand Tool Cleaning Rusted	CSE2 SP2 -	
1 ct. 1-2 cts.	ArmorSeal 33 Epoxy Primer/Sealer ArmorSeal HS Polyurethane) (175-225)) (50-75)	Power Tool Cleaning Pitted & Ru Power Tool Cleaning Pitted & Ru	isted D St 2 SP 2 - C St 3 SP 3 - Isted D St 3 SP 3 -	
Armor	Quartz System*:				TINTING	
1 ct.	ArmorSeal 33 Epoxy Primer/Sealer Clear, broadcast to excess with colo		(250)	Do not tint.		
1 ct.	ArmorSeal 33 Epoxy Primer/Sealer Clear, broadcast to excess with colo	24.0	(600)	Application Conditions		
1 ct. 1 ct.	ArmorSeal 650 SL/RC Clear at ArmorSeal 650 SL/RC Clear at	16.0 8.0	(400) (200)	Temperature:	55°F (13°C) minimum, 95°F (35°C) maximum (air, surface, and material)	
*Refer t	o application procedures			Relative humidity:	At least 5°F (2.8°C) above dew point 85% maximum	
The eve	stome listed above are representative	of the pr	aduct's uso	Refer to product Application	Bulletin for detailed application information.	
The systems listed above are representative of the product's use, other systems may be appropriate.			ouuci s use,	Order	ING INFORMATION	
				Packaging: 1 gallon (3.78L) kit 5 gallon (18.9L) mix	contains Part A and Part B Part A - 3.7 gal. (14.0L) in a 5 gal. (18.9L) container Part B - 1.3 gallon (4.9L)	
				Weight:	10.6 ± 0.2 lb/gal ; 1.3 Kg/L, mixed	
				SAFET	ry Precautions	
				Refer to the MSDS sheet befor	e use.	
					nstructions are subject to change without notice. s representative for additional technical data and	
					WARRANTY	
based up Such info pertain to	Disclaimer mation and recommendations set forth in this on tests conducted by or on behalf of The Shi mation and recommendations set forth herein the product offered at the time of publication representative to obtain the most recent Prod	erwin-Will are subjeo n. Consul	iams Company. ct to change and t your Sherwin-	ing defects in accord with applic Liability for products proven defective tive product or the refund of the determined by Sherwin-William	y warrants our products to be free of manufactur- sable Sherwin-Williams quality control procedures. ective, if any, is limited to replacement of the defec- e purchase price paid for the defective product as ns. NO OTHER WARRANTY OR GUARANTEE HERWIN-WILLIAMS, EXPRESSED OR IMPLIED,	

STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER-

CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

ArmorSeal Heavy Duty Floor EPO			EAL [®] 33 SEALER
SHERWIN WILLIAMS. Duty Floor Coatings	Part A Part A Part B	B58AQ33 B58CQ33 B60VQ33	Light Gray Clear Hardener
Revised: October 17, 2018 APPLICATIO	N BULLET	IN	8.20
Surface Preparations	Application Conditions		
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, a	ninimum, 95°F (35°C) and material) 2.8°C) above dew point
Concrete and Masonry For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No.	Relative humidity:	ative humidity: 85% maximum	
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).	APPLICATION EQUIPMENT		
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.	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		
Follow the standard methods listed below when applicable: ASTM D4258 Standard Practice for Cleaning Concrete.	existing environme	ental and application co	onditions.
ASTM D4259 Standard Practice for Cleaning Concrete. ASTM D4259 Standard Practice for Abrading Concrete.	ReducerNot recommended		

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.

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. Clean UpReducer #54, R7K54

Squeegee

Squeegee.....Flat, rubber

Roller

Refer to Application Procedures for specific directions.

If specific application equipment is not listed above, equivalent equipment may be substituted.

Surface Preparation Standards						
	Condition of Surface	ISO 8501-1 BS7079:A1	SSPC	NACE		
White Metal Near White Metal Commercial Blast Brush-Off Blast		Sa 3 Sa 2.5 Sa 2 Sa 1	SP 5 SP 10 SP 6 SP 7	1 2 3 4		
Hand Tool Cleaning	Rusted Pitted & Rusted	C St 2 D St 2	SP 2 SP 2	2		
Power Tool Cleaning	Duchad	Č Št 3 D St 3	SP 3 SP 3	2		

	ArmorSeal		AF	RMORSI	EAL [®] 33
COVER EARTH	Heavy	EPO	DXY PR	IMER/S	EALER
	Duty Floor				
Sherwin Williams.	Coatings		Part A Part A Part B	B58AQ33 B58CQ33 B60VQ33	Light Gray Clear Hardener
Revised: Octobe	er 17, 2018 AP	PLICATIC	N BULLET	IN	8.20
APF	PLICATION PROCEDUR	ES	ArmorQuart	zSystemApplica	TIONPROCEDURES
Before mixing Armor prepared and ready gallon (3.78L) units: I metal mixing blade (Pour hardener conter until material is thorou procedure as 1 gallo or equal) is required. Immediately pour en material using a flat, i primer into the porous ity 3/8" nap roller lea The fast set primer ca must be tack free be after initial cure of pri porous concrete. Apply paint at the re- indicated below: <u>Recomm</u> Wet mils (micron Dry mils (micron Dry mils (micron Dry mils (micron Coverage sq f Theoretical covera (m²/L) @ 1 mil / 25 <i>NOTE: Apply by s</i> <u>Drying Scho</u> To touch: To touch: To recoat: minimum: maximum: To cure: If maximum recoat to Drying time is term Pot Life: Sweat-in-Time:	ns) 7.0 (175) t/gal (m²/L) 180 (4.4) age sg ft/gal 1604 (20.4)	face is completely re handy. To mix 1 ately 250 rpm) with both components. X for 2 to 3 minutes L) units: Use same de (Jiffy Model ES ostrate and spread ressure to work the naterial with a qual- on the surface. (22°C). The primer osities are evident especially on very spreading rate as rcoat: Maximum 9.0 (225) 9.0 (225) 9.0 (225) 230 (5.6) microns): before topcoating. ness dependent. um recommended ance.	 Pour hardener conte drill for 3 minutes ann. Immediately pour the a squeegee and cross square feet per gallo Allow material to self quartz into the wet r quartz into the wet r quartz may be spread cast in such a way th the resin to move. C completely dry. Allow to cure (cure ti sweep off excess gra can be saved for futt be smoothed before Second Broadcast Step Premix ArmorSeal 33 referenced. Pour hardener conte drill for 3 minutes ann. Immediately pour the squeegee and cross feet per gallon (appred 4. Allow material to self- quartz may be spread cast in such a way th the resin to move. C completely dry. Allow to cure (cure ti sweep off excess gra can be saved for futt. NOTE: Color quartz dis finished appearance de applied. In grass seed- upward and out. Do no Grout Coat / Seal Coat 1. Premix both compon low speed drill and Ji ing caution not to inti 2. Combine and mix w until uniform. To inst mix ratio recommence 3. Apply ArmorSeal 650 with a 3/8" woven roll gallon (approximatel sure of unform cove coats may be require materials and insur 4. Allow to cure. (Cure 	nts into a slack-filled resin d until uniform. e mixed material onto the ss roll with a 3/8" nap roller in (approximately 10.0 mills level for 10-15 minutes. Be esin (much the same as g d by hand or mechanical lat the granules fall lightly i Continue broadcasting to e mes vary depending on er anules with a clean, stiff-bri- ure use. All imperfections the application of the second B Epoxy Primer/Sealer Clean its into a slack-filled resin d until uniform. e mixed material onto the s roll with a 3/8" nap roller at a oximately 24.0 mils / 600 n -level for 10-15 minutes. B esin (much the same as g d by hand or mechanical lat the granules fall lightly i continue broadcasting to e mes vary depending on er anules with a clean, stiff-bri- are use. tribution is critical to the su use soft a clean, stiff-bri- are use. tribution is critical to the su bends on the manner in w like fashion, allow the gran t throw downward at a sl ents of ArmorSeal 650 SL/ ffy mixer. Mix for 1-2 minut roduce air into the material vith low speed drill and Jiff are proper system cure and fattors. SL/RC Clear using a flat tro ler. Apply evenly at a spreas y 16.0 mils / 400 microns v rage. Spike roll and flare 20- d to duplicate desired texture even coverage. times vary depending on er EAN UP INSTRUC rs immediately with Reduce ith Reducer #54, R7K54. In using any solvent.	egin evenly seeding the color rass seed is spread). Color blower but should be broad- nto the resin without causing xcess until the floor appears nvironmental conditions) and stled broom. Clean granules , such as high spots, should and broadcast. ar components as previously can and mix with low speed ubstrate and pull out using a a spread rate of 65-70 square nicrons wft). egin evenly seeding the color rass seed is spread). Color blower but should be broad- nto the resin without causing xcess until the floor appears nvironmental conditions) and stled broom. Clean granules ccess of the application. The hich the granules have been ules to fall after being thrown harp angle using force. RC Clear separately, using a es and until uniform, exercis- ty mixer for 2-3 minutes and d performance, strictly follow wel or squeegee and backroll ad rate of 100 square feet per vft), with no puddles, making 00 minutes as needed. Two the trace the conditions.) CTIONS
No reduction of materia and adhesion.	al is recommended as it can affect film		based upon tests condu Such information and rec pertain to the product o Williams representative Application Bulletin.	cted by or on behalf of The commendations set forth he ffered at the time of public to obtain the most recent f	this Product Data Sheet are Sherwin-Williams Company. rein are subject to change and ation. Consult your Sherwin- Product Data Information and
,	rial beyond recommended pot life. catalyzed material with new.				
	mation sheet for additional performa	ance characteristics	The Sherwin-Williams Co	WARRANTY	cts to be free of manufacturing
	AFETY PRECAUTIONS		defects in accord with a Liability for products pro	applicable Sherwin-William wen defective, if any, is limi	s quality control procedures. ited to replacement of the de-
Refer to the MSDS she		ange without notice. I technical data and	OF ANY KIND IS MADE	BY SHERWIN-WILLIAMS	paid for the defective product ARRANTY OR GUARANTEE , EXPRESSED OR IMPLIED, ERWISE, INCLUDING MER- AR PURPOSE.

Refer to the MSDS sheet before use.