

ArmorSeal Heavy Duty Floor

Coatings

8.35 ARMORSEAL® 5020 EPOXY FLOOR RESURFACER

PRIMER & RESURFACER PART A B58-5 PART B B60-5

B58-5020 Series B60-5020 Series B58DQ5022 Series

Resin Hardener Aggregate

PRODUCT INFORMATION

Revised 3/07

	PRODUCT DESCRIPT	ION	RECOMMENDED USES					
trowelable epoxy s old floors of conc chemical and abra erties of ArmorSe	20 EPOXY FLOOR I surfacing and leveling correte, wood, or steel wh sion resistance is require al 5020 are much high llent abrasion and imparafic areas.	ompound for new and ere a high degree of ed. The physical prop- er than those of con-	 As a high build epoxy floor resurfacer Food process industries: dairies, bakeries, breweries, bottling plants and packing houses Pharmaceutical Houses Chemical Process and Refinery Industries Industrial Plants Utilities: Sewage and Water Treatment Plants, Generating Stations Suitable for use in USDA inspected facilities 					
PRODUCT CHARACTERISTICS			PHYSICAL PROPERTIES					
Finish:	Low Sheen		Abrasion Resistance:					
Color: (topcoat)	Haze Gray		Result: 5 times concrete					
Volume Solids: mixed	Primer 53% ± 2%	Resurfacer 100%	Adhesion: Result: Excellent					
VOC (EPA Method mixed g/L lb/ga	<420	Resurfacer <250 <2.08	Direct Impact Resistance: Result: Excellent					
Mix Ratio: by volume	2 premeasure Primer 1:1	ed units: Resurfacer: 2:1 less aggregate	Dry Heat Resistance: Method: ASTM D2485 Result: 150°F					
Wet mils: Dry mils:	preading Rate per coa Primer 2.0 - 4.0 1.0 - 2.0 gal/unit): 425 - 850	at: Resurfacer 250.0 (1/4") 250.0 (1/4") 20	Compressive Strength:Method:ASTM D695Result:10,000 psi (69 MPa)Flexural Strength:Method:ASTM D790					
Drying Schedule	@ 50% RH, @ 72°F: Primer	Resurfacer	Result: 3,466 psi (23.9 MPa)					
To touch: To recoat: To topcoat To cure:	2 hours 2 hours 2 hours 7 days	4 - 6 hours (N/A) 12-18 hours 18 hours	Service Temperature: Result: -10°F to 150°F					
Foot Traffic 2 - 3 hours 12 hours Primer can be topcoated even if the surface is still tacky. Drying time is temperature, humidity, and film thickness dependent.		s still tacky.	Chemical resistantSolvent resistant					
Pot Life: @ 72°F, 50% RH	Primer 8 hours	Resurfacer 45 minutes	Abrasion resistant					
Sweat-in-time:	None require	d	Impact resistant					
Shelf Life:18 months, unopenedStore indoors at 40°F to 100°F.								
Flash Point: PMCC, mixed	Primer 87°F	Resurfacer 200°F						
Reducer: Not recommended		ended						
Clean Up: Xylene, R2K4								



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PRIMER & RESURFACER PART A B58-50

B58-5020 Series B60-5020 Series B58DQ5022 Series Resin Hardener Aggregate

PRODUCT INFORMATION

PART B

RECOMMENDED SYSTEMS	SURFACE PREPARATION		
Concrete/Masonry: 1 ct. ArmorSeal 5020 Primer @ 1.0 - 2.0 mils dft 1 ct. ArmorSeal 5020 Resurfacer @ 250.0 mils dft Optional	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.		
Optional 1 ct. ArmorSeal 1000HS Epoxy @ 3.0 - 5.0 mils dft or ArmorSeal 650SL/RC @ 10.0 - 30.0 mils dft	Refer to product Application Bulletin for detailed surface preparation information.		
Steel:1 ct.Recoatable Epoxy Primer @ 4.0 - 5.0 mils dft1 ct.ArmorSeal 5020 Resurfacer @ 250.0 mils dftOptional1 ct.1 ct.ArmorSeal 1000HS Epoxy @ 3.0 - 5.0 mils dft	Minimum recommended surface preparation: * Iron & Steel: SSPC-SP6/NACE 3 Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI 03732, CSP1-3		
1 ct. ArmorSeal 1000HS Epoxy @ 3.0 - 5.0 mils dft or ArmorSeal 650SL/RC @ 10.0 - 30.0 mils dft	* Primer required		
	TINTING		
	Do not tint.		
	APPLICATION CONDITIONS		
	Temperature: 55°F minimum, 95°F maximum (air, surface, and material) At least 10°F above dew point		
	Relative humidity: 85% maximum		
	Refer to product Application Bulletin for detailed application in- formation.		
	Ordering Information		
	Packaging: 20 sq ft kits and 480 sq ft kits (contains Primer and Resurfacer)		
	Weight Per Kit: 20 sq ft kit: 49 lb total 480 sq ft kit: 1,176 lb total		
	SAFETY PRECAUTIONS		
	Refer to the MSDS sheet before use.		
The systems listed above are representative of the products use, other systems may be appropriate.	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.		
Disclaimer	WARRANTY		
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ArmorSeal Heavy Duty Floor Coatings

8.35A ARMORSEAL® 5020 EPOXY FLOOR RESURFACER

PRIMER & RESURFACER PART A B58-50 PART B B60-50

B58-5020 Series B60-5020 Series B58DQ5022 Series

Resin Hardener Aggregate

APPLICATION BULLETIN

Revised 3/07

APPLICATION BULLETIN Revised 3/07							
SURFACE PREPARATION	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: 55°F minimum, 9 (air, surface, and At least 10°F ab	d material)					
Poured Concrete New For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI	Relative humidity: 85% maximum						
03732, CSP 1-3. Surface must be clean, dry, sound, and offer sufficient profile to achieve adequate adhesion. Minimum							
substrate cure is 28 days at 75°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechani- cal scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 8.0 and 11.0. Allow to dry thoroughly prior to coating. Old Surface preparation is done in much the same manner as new concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shot- blasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough sur- face, ArmorSeal 5020 Floor Resurfacer is recommended to patch and resurface damaged concrete.	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. Reducer Not recommended Clean Up Xylene, R2K4 Conventional Spray—For Primer only Binks 95 Tip 66 Cap 63PB Atomization Pressure 50 psi Fluid Pressure 10 psi						
 Always follow the standard methods listed below: ASTM D4258 Standard Practice for Cleaning Concrete. ASTM D4260 Standard Practice for Etching Concrete. ASTM D4260 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete. SSPC-SP 13/Nace 6 Surface Preparation of Concrete ICRI 03732 Concrete Surface Preparation Iron & Steel (atmospheric service) Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast 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). Prime any bare steel the same day as it is cleaned or before flash rusting occurs. 	Brush—For Primer only Brush Nylon/Polyester Roller—For Primer only Cover 1/2" woven with Equipment—For Resurfacer Metal Float for Resurfacer Steel Trowel Steel Trowel for Resurfacer, 3 If specific application equipment is not list lent equipment may be substituted.	phenolic core 3" x 12"					



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Coatings

8.35A ARMORSEAL® 5020 EPOXY FLOOR RESURFACER

PRIMER & RESURFACER PART A B58-5

PART A B58-5020 SERIES PART B B60-5020 SERIES B58DQ5022 SERIES Resin Hardener Aggregate

APPLICATION BULLETIN

Application Procedures	Application Procedures (continued)					
Surface preparation must be completed as indicated.	Recommended Spreading	g Rate per coat Primer	: Resurfacer			
After proper surface preparation, apply Primer to an area no larger in	Wet mils:	2.0 - 4.0	250.0 (1/4")			
size than can be surfaced within 8 hours. Prime all surfaces with	Dry mils:	1.0 - 2.0	250.0 (1/4")			
			,			
ArmorSeal 5020 Primer 2 hours before application of ArmorSeal 5020	Coverage (sq ft/gal/unit):	425 -850	20			
Epoxy Floor Resurfacer.						
	Drying Schedule @ 50% F					
Primer:		Primer	Resurfacer			
The ArmorSeal 5020 unit includes enough Primer for the unit area. The	To touch:	2 hours	4 - 6 hours			
Primer is to be applied to new or old concrete floors. Power mix Part	To recoat:	2 hours	(N/A)			
A and Part B with a Jiffy mixer blade and drill and let stand 10 minutes	To topcoat	2 hours	12-18 hours			
prior to application. Pour the mixed Primer onto the area to be primed,	To cure:	7 days	18 hours			
pouring in a narrow ribbon paralleling a wall or work area. Apply	Foot Traffic	2 - 3 hours	12 hours			
Primer with a 1/2" nap roller, rolling out a sufficient quantity to ensure	Primer can be topcoated ev					
complete wetting of floor surface. Apply Primer in a liberal fashion on	Drying time is temperature, humidity, and film thickness dependent.					
very porous surfaces. For irregular surfaces such as cracks, pot-						
holes and eroded areas and areas adjacent to walls and corners,	Pot Life:	Primer	Resurfacer			
application by brush is recommended. Check the primed area for	@ 72°F, 50% RH	8 hours	45 minutes			
holidays and dry spots, roll out any puddles. Primer can also be easily						
sprayed using conventional or airless spray equipment.	Sweat-in-time:	None required				
Resurfacer:	PERF	ORMANCE TIP	s			
Premix both components. Pour hardener into slack-filled resin can						
and mix 1-2 minutes until homogenous. Then pour and scrape entire	Spreading rates are calculate	ed on volume solid	Is and do not include an			
mixture into a clean 5 gallon metal pail. Mount the metal pail into a 5	application loss factor due to surface profile, roughness or porosity					
gallon portable electric mixer.* Start mixer and operate for 1 minute,	of the surface, skill and technique of the applicator, method of applica-					
working mixing blade slowly through its full arc. Slowly add all aggre-	tion, various surface irregularities, material lost during mixing, spill-					
gate from bag over a period of 2-3 minutes. Continue mixing for 2		age, overthinning, climatic conditions, and excessive film build.				
minutes until aggregate is wet-out thoroughly. Immediately empty mix-	age, overtrimining, climate e					
ture onto primed floor surface and spread to desired thickness with a	No reduction of motorial is	recommended on	it can affect film build			
	No reduction of material is	lecommended as	it can allect lim build,			
metal float or by screeding. Finish surface with a 3" x 12" steel trowel.	appearance, and adhesion.					
Keep trowel clean with Xylene, R2K4. Pitch to drains as required.						
	Do not mix previously cataly	zed material with	new.			
* If a 5 gallon portable electric mixer is not available, use conventional						
concrete mixing techniques. Contact your Sherwin-Williams repre-	Do not apply the material beyond recommended pot life.					
sentative for specific information, or if in doubt about procedures,						
techniques or equipment.						
	Refer to Product Information sheet for additional performance char-					
Using a steel trowel wetted with Xylene, R2K4 and held at an angle,	acteristics and properties.					
apply pressure to the coating. Use a sweeping motion to level, pack,	CLEAN UP INSTRUCTIONS					
and close the coating surface. A coating surface free of lap marks is achieved by maintaining a wet edge through continuous application of	GLEAN OP INSTRUCTIONS					
freshly mixed material. A properly finished surface will show few	Clean spills and spatters im	mediately with Xv	lene R2K4, Clean tools			
trowel marks and the surface will be closed. Areas where ArmorSeal	Clean spills and spatters immediately with Xylene R2K4. Clean tools immediately after use with Xylene R2K4. Follow manufacturer's safety					
5020 will butt against existing concrete need to be "keyed" by saw	recommendations when usi		w manalacturer s surety			
cutting or chipping a channel 1/4" deep by 1" wide around the perim-	recommendations when us	ng Aylene.				
eter of the resurfaced area and beveling material down to the level of	SAFETY PRECAUTIONS					
existing concrete. Clean all adjacent floor areas and equipment with			•			
R2K4 (Xylene) before ArmorSeal 5020 cures and hardens. (continued on next column)	Refer to the MSDS sheet be	etore use.				
(·····································	Published technical data and	d instructions are	subject to change with-			
	out notice. Contact your Sherwin-Williams representative for addi- tional technical data and instructions.					
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	The Sherwin-Williams Company		cts to be free of manufactur-			
The information and recommandations act forth in this Braduct Date Object	ing defects in accord with applica	ble Sherwin-William	s quality control procedures.			
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