

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

Produ	CT DESCRIPTI	ON	RECOMMENDED USES		
ARMORSEAL 5020 EPOXY FLOOR RESURFACER is a trowelable epoxy surfacing and leveling compound for new and old floors of concrete, wood, or steel where a high degree of chemical and abrasion resistance is required. The physical properties of ArmorSeal 5020 are much higher than those of concrete and its excellent abrasion and impact resistance recommend it for high traffic areas.			 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: Result: 5 times concrete		
Color: (topcoat) Volume Solids: mixed	Haze Gray Primer 53% ± 2%	Resurfacer 100%	Adhesion: Result: Excellent		
VOC (EPA Method 24): mixed g/L lb/gal	Primer <420 <3.5	Resurfacer <250 <2.08	Direct Impact Resistance: Result: Excellent		
Mix Ratio: by volume	2 premeasure Primer 1:1	d units: Resurfacer: 2:1 less aggregate	Method: ASTM D2485 Result: 150°F		
Recommended Spreadir Wet mils: Dry mils: Coverage (sq ft/gal/unit): Drying Schedule @ 50% To touch: To touch: To topcoat: To topcoat To cure: Foot Traffic	Rate per coa Primer 2.0 - 4.0 1.0 - 2.0 425 - 850 RH, @ 72°F: Primer 2 hours 2 hours 2 hours 7 days 2 - 3 hours	t: Resurfacer 250.0 (1/4") 250.0 (1/4") 20 Resurfacer 4 - 6 hours (N/A) 12-18 hours 18 hours 12 hours	Compressive Strength: Method:ASTM D695 Result:Result:10,000 psi (69 MPa)Flexural Strength: Method:ASTM D790 Result:3,466 psi (23.9 MPa)Service Temperature: Result:-10°F to 150°F• Chemical resistant		
Drying time is temperature, humidity, and film thickness dependent.			Solvent resistant		
@ 72°F, 50% RH	8 hours	Resurfacer 45 minutes	Aprasion resistant Impact resistant		
Sweat-in-time:	None required				
Shelf Life:	18 months, unopened Store indoors at 40°F to 100°F.				
Flash Point: PMCC, mixed	Primer 87°F	Resurfacer 200°F			
Reducer:	Not recomme	nded			
Clean Up: Xylene, R2K4					



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PRIMER & RESURFACER

Part A Part B B58-5020 Series B60-5020 Series B58DQ5022 Series Resin Hardener Aggregate

PRODUCT INFORMATION

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.		
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.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		
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		
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 Infor- mation and Application Bulletin.	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 defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUAR- ANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUD- ING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.		



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

AFFLIGATION DULLETIN 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, 95°F maximum (air, surface, and material) At least 10°F above dew point								
Poured Concrete New	Relative humidity: 85% maximum								
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 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	APPLICATION EQUIPMENT								
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.	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 com- patible with the existing environmental and application condi- tions								
Old Surface preparation is done in much the same manner as new	tions.								
concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with	Reducer Not recommended								
a strong detergent. Refer to ASTM D4258. Form release	Clean Up Xylene, R2K4								
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.	Conventional Spray—For Primer only GunBinks 95 Tip								
Fill all cracks, voids and bugholes with ArmorSeal Crack Filler.	Fluid Pressure 10 psi								
Always follow the standard methods listed below: 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 03732 Concrete Surface Preparation	Brush—For Primer only Brush Brush Nylon/Polyester or Natural Bristle Roller—For Primer only Cover Cover 1/2" woven with phenolic core Equipment—For Resurfacer Metal Float Metal Float for Resurfacer Steel Trowel for Resurfacer, 3" x 12"								
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 perform- ance, use Near White Metal Blast Cleaning per SSPC-SP10/ NACE 2. Blast clean all surfaces using a sharp, angular abra- sive for optimum surface profile (2 mils). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.	If specific application equipment is not listed above, equiva- lent equipment may be substituted.								



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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	Pasurfacor			
After proper surface proparation, apply Primer to an area no larger in	Wot mile:	20 40				
After proper surface preparation, apply Finner to an area no larger in	Dry mile:	2.0 - 4.0	250.0(1/4)			
Size than can be surfaced within 8 hours. Prime all surfaces with	Dry mills.	1.0 - 2.0	250.0 (1/4)			
ArmorSeal 5020 Primer 2 hours before application of ArmorSeal 5020	Coverage (sq π/gai/unit):	425 -850	20			
Epoxy Floor Resurfacer.						
	Drying Schedule @ 50% F	RH, @ 72°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 liffy mixer blade and drill and let stand 10 minutes	To topcoat	2 hours	12-18 hours			
prior to application. Dour the mixed Drimer anto the grap to be primed		Z dovo	12 hours			
phor to application. Four the mixed Filmer onto the area to be prined,		7 uays				
pouring in a narrow ribbon paralleling a wall or work area. Apply	Foot Traffic	2 - 3 nours	12 nours			
Primer with a 1/2" nap roller, rolling out a sufficient quantity to ensure	Primer can be topcoated ev	en if the surface is	s still tacky.			
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°E 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:	Performance Tips					
end mix 1.2 minutes until homogeneue. Then neur and earons entire						
and mix 1-2 minutes until homogenous. Then pour and scrape entire	Spreading rates are calculate	ed on volume solid	s and do not include an			
mixture into a clean 5 gallon metal pall. Mount the metal pall 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-						
ture onto primed floor surface and spread to desired thickness with a	No reduction of material is recommended as it can affect film 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	Do not mix previously cataly	Zeu matenai with	new.			
	Denote the the sector is the sector denotes a sector of a set 1%.					
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, and close the coating surface. A coating surface free of lap marks is	CLEAN UP INSTRUCTIONS					
achieved by maintaining a wet edge through continuous application of						
freshly mixed material. A properly finished surface will show few	Clean spills and spatters immediately with Xylene R2K4. Clean tools					
trowel marks and the surface will be closed. Areas where ArmorSeal	immediately after use with Xylene R2K4. Follow manufacturer's safety recommendations when using Xylene					
5020 will butt against existing concrete need to be "keyed" by saw						
cutting or chipping a channel 1/4" deep by 1" wide around the perim-		3 7 4 4				
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	Refer to the MSDS sheet bo					
(continued on next column)						
	Published technical data and	Published technical data and instructions are subject to change with-				
	out notice. Contact your S	herwin-Williams r	epresentative for addi-			
	tional technical data and ins	tructions.				
DISCLAIMER	WARRANTY					
	The Sherwin-Williams Company	warrants our produc	ts to be free of manufactur-			
The information and recommendations set forth in this Product Data Shoot are	ing defects in accord with applica	ble Sherwin-William	s quality control procedures.			
hased upon tests conducted by or on behalf of The Sharwin-Williams Company	Liability for products proven de	tective, if any, is lin	nited to replacement of the			
Such information and recommendations set forth herein are subject to change	defective product or the refund	defective product or the refund of the purchase price paid for the defective				
and pertain to the product offered at the time of publication. Consult your	product as determined by Sherwin	n-Williams. NO OTH	ER WARRANTY OR GUAR-			
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mation and Application Bulletin.	IMPLIED, STATUTORY, BY OPE	RATION OF LAW	OR OTHERWISE, INCLUD-			
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