Marine	MACROPOXY [®] 5000 ATING EPOXY PRIMER / SEALER FOR CONCRETE & STEEL Part A B58W20 TRANSLUCENT WHITE		
SHERWIN WILLIAMS. Coatings	PART AB58C20CLEARPART BB58V20HARDENER		
Revised: January 18, 2024 PRODUCT	INFORMATION 4.85		
CONCRETE Product Description	STEEL Product Description		
MACROPOXY 5000 is an ultra high solids, penetrating epoxy primer / sealer designed for priming and sealing concrete prior to the application of coatings and linings. It has excellent wetting properties and penetrates deeply into concrete to aide in controllin outgassing and to provide a firm anchor for subsequent topcoat • A penetrating primer / sealer for concrete and masonry surface	MACROPOXY 5000 is a rust-inhibitive, pigmented, ultra high solids, penetrating epoxy primer / sealer designed for use over marginally prepared steel and aged coatings. It has excellent wetting properties and penetrates tight rusted steel to provide a firm anchor for subsequent topcoats. In addition, Macropoxy 5000 can be used to overcoat aged coatings and act as barrier coat for a variety of topcoats without the need for an intermediate coat.		
 Excellent wetting properties VOC less than 50 g/L Suitable for application to SSD concrete 	 A penetrating primer / sealer for tight rusted surfaces and aged coatings Excellent wetting properties VOC less than 50 g/L Barrier coat for a broad range of topcoats 		
CONCRETE Recommended Uses	STEEL Recommended Uses		
For use as a primer / sealer over prepared concrete surfaces.	For use as a primer / sealer over prepared steel surfaces.		
 Wastewater & Sewer collection systems Chalky surfaces in atmospheric conditions Industrial applications Suitable for use in USDA inspected facilities Suitable for use on floors and tanks Suitable for immersion when topcoated with a Sherwin-William approved lining 	 Over white rusted and zinc rich coatings Petrochem exploration and offshore platforms Chalky surfaces in atmospheric conditions Tanks, piping, structural steel and vessels Industrial applications Marine applications Over marginally prepared steel when abrasive cleaning is not possible Suitable for use in USDA inspected facilities Ideal for corrosion mitigation in maintenance coating programs Suitable for use in the Mining & Minerals industry Can be used as a metalizing sealer. Consult your Sherwin- 		
CONCRETE	Williams Representative.		
PRODUCT CHARACTERISTICS	STEEL Product Characteristics		
Color: Clear*, Translucent White	Color: Clear, Translucent White		
*for immersion applications, only use Clear	Recommended Spreading Rate new cost:		
Recommended Spreading Rate per coat:	Recommended Spreading Rate per coat: Minimum Maximum		
Minimum Maximum	Wet mils (microns) 1.0 (25) 2.0 (50)		
~Coverage sq ft/gal (m²/L) 400 (9.8) 500 (13.0	Dry mils (microns) 1.0 (25) 2.0 (50) Coverage sq ft/gal (m²/L) 800 (19.6) 1050 (25.7)		
Drying Schedule @ 400-500 sq ft/gal (9.8-13.0 m²/L):	Theoretical coverage sq ft/gal 1600 (39.2)		
@ 40°F/4.5°C @ 77°F/25°C @ 100°F/38°C 50% RH			
To touch:when fully penetrated / no surface filmTo recoat:minimum:minimum:when fully penetrated / no surface filmmaximum**:7 days7 days7 days7 days7 days	Drying Schedule @ 2.0 mils wet (50 microns): @ 40°F/4.5°C @ 77°F/25°C @ 100°F/38°C 50% RH To touch: 4 days 16 hours 12 hours		
maximum***: 30 days 30 days 30 days To cure: refer to topcoat curing schedule Drying time is temperature, humidity, and film thickness dependent.	Dry to handle:7 days24 hours16 hoursTo recoat:minimum:4 days*16 hours12 hoursmaximum:20 days20 days20 days		
**for immersion applications with acceptable topcoats (see Recommended Systems on page 3)	maximum: 30 days 30 days 30 days To cure: 14 days 7 days 7 days * For brush or roll. Minimum recoat by spray application is 2 days. If maximum recoat time is exceeded, abrade surface before recoating.		
***for atmospheric applications with acceptable topcoats (see Recommended Systems on page 3)	Drying time is temperature, humidity, and film thickness dependent.		

Protective & PENETRA	MACROPOXY [®] 5000		
<i>SHERWIN WILLIAMS.</i> Coatings	FOR CONCRETE & STEELPart AB58W20Translucent WhitePart AB58C20ClearPart BB58V20Hardener		
Revised: January 18, 2024 PRODUCT IN	FORMATION 4.85		
CONCRETE Performance Characteristics	STEEL Performance Characteristics		
 Designed for industrial environments A high performance primer/sealer for masonry surfaces Suitable for immersion when topcoated with a Sherwin-Williams approved lining Deeply penetrates concrete surfaces to aide in outgassing control Designed to completely penetrate concrete surface, does not form a surface film Formation of surface film may require sweep blasting prior to application of liners for immersion Epoxy coatings may darken or yellow following application and curing 	 Designed for industrial and marine environments Penetrates existing, tightly adhered rust to provide a "tight" substrate prior to subsequent coats Eliminates the need for intermediate coats Can also be used as a high performance primer/sealer for masonry surfaces Not for immersion service Dry heat resistance up to 200°F (93°C) Epoxy coatings may darken or yellow following application and curing 		
CONCRETE Surface Preparation	STEEL Surface Preparation		
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.	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.		
Concrete and Masonry For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3 (Atmospheric) CSP 3-6 (Immersion). Surfaces should be thoroughly clean and free of contaminants. New concrete must be cured at least 28 days @ 75°F (24°C). A.W. Cook and Sherwin-Williams mortars shall cure for a minimum 24 hours @ 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 an approved A.W. Cook or Sherwin-Williams approved cementitious or epoxy mortar, or Steel-Seam FT910.	 Iron & Steel Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (1.0-2.0 mils / 25-50 microns). Prime any bare steel within 8 hours or before flash rusting occurs. 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 		
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. 310.2R Concrete Surface Preparation	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. <u>Surface Preparation Standards</u> <u>Surface Preparation Standards</u> <u>Surface Preparation Standards</u> <u>Surface Standards</u> <u>Surface Standards</u> <u>Surface Standards</u> <u>Sa 3</u> Sa 3 Sa 2.5 Sa 2.5 Sa 2.5 Sa 2.5 Sa 2.5 Sp 10 2 Sommercial Blast Hand Tool Cleaning Rusted <u>Power Tool Cleaning Pitted & Rusted</u> <u>Pitted & Rusted</u> <u>Distandards</u> <u>Condition of</u> <u>Surface Standards</u> <u>Surface Standards</u> <u>Sa 2</u> Sa 2 Sa 2 Sa 2 Sa 2 Sa 2 Sa 3 Sa 3 Sp 3 <u>Sa 3</u> <u>Sa 3</u> <u>S</u>		

	COVER EATH EATH	Protectiv & Marine	P	ENETRA	ATIN	G EP FC	CROP(OXY PRI OR CONCI	MER / S RETE &	SEALER STEEL
She Wil	ERWIN LIAMS.	Coating			P	ART A ART A ART B	B58W20 B58C20 B58V20	Translu	cent White Clear Hardener
Revi	sed: Januar	y 18, 2024	Pro	DUCT IN	FOR	MATI	ON		4.85
		CONCRE	TE				STEE	EL	
	Re	COMMENDED	Systems	;	RECOMMENDED SYSTEMS				IS
			-	Thickness / ct.				2	n Thickness / ct.
Concre	te & Mason	ry, Immersion	<u>Mils</u>	(<u>Microns)</u>	Steel:			<u>Mils</u>	(<u>Microns)</u>
1 ct.	Macropoxy	Service***: 5000 (Clear) - 400-5	00 sq ft/gal (§	9.8-13.0 m²/L)	1 ct. 2 cts.	Macropo Macropo		1.0-2.0 5.0-10.0	(25-50) (125-250)
1 ct.	Acceptable Dura-Plate	6100*		(2000-3125+)	Steel,	zinc rich			
		6000 Mortar*	125.0-500.0	(2000-6250) (3125-12500)	1 ct. 1 ct.	Zinc Clac Macropo		3.0-5.0 1.0-2.0	(75-125) (25-50)
	Poly-Cote 1	15**	80.0-250.0	(2000-6250)	2 cts.	Acrolon 2	218	3.0-6.0	(75-150)
Mediun 1 ct.	n Film / Moc Macropoxy	ry, Immersion derate Service***: 5000 (Clear) - 400-5	00 sq ft/gal (§	9.8-13.0 m²/L)	1 ct.	Macropo	•	1.0-2.0	(25-50)
1 ct.	Acceptable Dura-Plate	6100*	40.0-80.0	(1000-2000)	1 ct.	Macropo		1.0-2.0	(25-50)
	Dura-Plate Poly-Cote 1		40.0-80.0 40.0-80.0	(1000-2000) (1000-2000)	1 ct. 1 ct.	Epoxy M Acrolon 2	astic Aluminum II 218	4.0-6.0 3.0-6.0	(100-150) (75-150)
Concre	te & Mason	ry, Atmospheric:			or 1 ct.	Hi-Solids	Polyurethane 250	3.0-5.0	(75-125)
1 ct. 1 ct.	Macropoxy Macropoxy	5000* - 400-500 sq f 646	t/gal (9.8-13.) 5.0-10.0	0 m²/L) (125-250)	Accept	able topco			
*Optional for outgassing control **Primer required Additional topcoat options: Additional topcoat op									
Additional topcoat options: ***Dura-Plate 8200, Sherflex, Dura-Plate UHS, and Sher-Glass FF Macropoxy 5500LT - for atmospheric service Tank Clad HS - for atmospheric service					Macrop	oxy HS oxane 800 ryl HPA			
***consult your Sherwin-Williams representative for immersion suitability				Epoxy I	Mastic Aluminum II Is Polyurethane 250)			
	tems listed a s may be ap	bove are representat propriate.	ive of the pro	duct's use, other	The systems listed above are representative of the product's use, other systems may be appropriate.				
CONCRETE			STEEL						
Performance Tips			Performance Tips						
at a righ	t angle	plication, use a 50% of , bare areas, and pinh			gun to	using spray avoid holida ht angle	application, use a 50 ays, bare areas, and)% overlap with pinholes. If nece	each pass of the essary, cross spray
Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.					or po¬rosity of the application, various				
No reduction of material is recommended as it can affect film build,			uction of m	aterial is recommend		ect film build,			
Do not a	apply the mat	erial beyond recomme	ended pot life.			ance, and a		mmanded not lif	-
Do not mix previously catalyzed material with new.			Do not apply the material beyond recommended pot life. Do not mix previously catalyzed material with new.						
To avoid before p	l blockage of periods of exte	spray equipment, clea	an equipment Xylene, R2K4	before use or		·	5		nt before use or
Only use	e Clear versio on.	on of Macropoxy 5000	for concrete	substrates for		·	of spray equipment, extended downtime v		
Apply material when concrete temperature is decreasing.			heavily	rusted/pitte	ance in severely corr ed steel or porous cor				
Avoid application in direct sunlight.			be required. Roll out any puddles.						
Airless spray is acceptable for application; however, the product shall be backrolled to eliminate excessive millage and puddles.			Airless spray is acceptable for application; however, the product should be						
Designed to completely penetrate concrete surface, do not form a surface film. Formation of Surface film may require sweep blasting prior to application of liners for immersion.			backrolled to eliminate excessive millage and puddles. Gloss may vary depending on substrate and film thickness.						

COVER	Marine	PENETRATING EF	POXY PRI	DXY [®] 5000 MER / SEALER RETE & STEEL
SHERWIN WILLIAMS.		Part A Part A Part B	B58W20 B58C20 B58V20	Translucent White Clear Hardener

PRODUCT INFORMATION

APPLICATION EQUIPMENT

4.85

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 Xylene, R2K4
Clean-Up	Xylene, R2K4

Airless Spray*

Pressure	2200 - 2500 psi
Hose	1/4" ID '
Тір	015"
Filter	60 mesh

*Airless spray is acceptable for application; however, the product should be backrolled to eliminate excessive millage and puddles

Conventional Spray

Gun	Binks 95
Тір	66
Сар	63 PB
Cap Atomization Pressure. Fluid Pressure	50 psi
Fluid Pressure	10 psi

Brush

Brush......High quality nylon/polyester bristle

Roller

Cover (for Steel)......1/4" or less woven with solvent resistant core Cover (for Concrete)......3/8" or more woven with solvent resistant core

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

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. Follow manufacturer's safety recommendations when using any solvent.

SAFETY PRECAUTIONS

Refer to the SDS sheet before use

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

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.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing 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 GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Revised: January 18, 2024

Finish:

Volume Solids:

Weight Solids:

Sweat-in-Time:

Mix Ratio:

Shelf Life:

Flash Point:

Reducer:

Clean Up:

Do not tint.

VOC (Calculated):

Pot Life, at 50% RH:

Application Conditions

Tinting

PRODUCT CHARACTERISTICS

96% ± 2%, mixed

97% ± 2%, mixed

<50 g/L; 0.42 lb/gal, mixed

75°F (24°C), PMCC, mixed

24 months, unopened, store indoors at 40°F (4.5°C) to 100°F (38°C)

2 components, 3:1 ratio

2 hours at 40°F/4.5°C

1 hour at 77°F/25°C 20 minutes at 100°F/38°C

Not recommended

Xylene, R2K4

None required

Gloss

Temperature: 40°F (4.5°C) minimum, 120°F (49°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point Relative humidity: 85% maximum

ORDERING INFORMATION

Packaging:	
Part A:	3 quarts (2.8L) in a 1 gallon (3.78L) container
	3 gallons (11.3L) in a 5 gallon (18.9L) container
Part B:	1 quart (0.94L) and 1 gallon (3.78L)
	1 gallon (3.78L) and 4 gallons (15.1L) mixed

Weight: 9.40 ± 0.2 lb/gal ; 1.1 Kg/L, mixed

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Use low speed mechanical agitation to mix Part A and Part B separately, then add 1 part by volume of Part B to 3 parts by volume of Part A. Mix the combined parts using low speed power agitation for at least 5 minutes. Mixed material will generate heat and should be handled appropriately, using all material before pot life expiration, and cleaning lines and equipment immediately after use. Higher temperatures will decrease working pot life, while lower temperatures will increase it.

If reducer solvent is used, add only after both components have been thoroughly mixed.

Apply paint at the recommended film thickness and spreading rate.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.