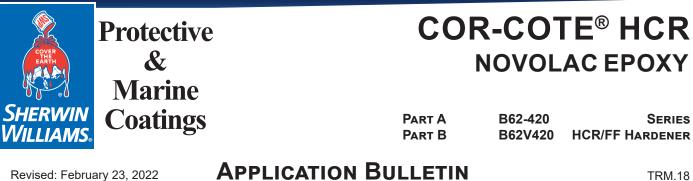
COVER EARTH EARTH EARTH	Protective & Marine		COR-COTE [®] HCR NOVOLAC EPOXY				
Sherwin Williams.	Coati	ngs		Part A Part B	B62-420 B62V420	Series HCR/FF Hardener	
Revised: Februa	ary 23, 2022	Pro		FORMATIO	N	TRM.18	
Pi	RODUCT D	ESCRIPTION		Red	COMMENDED	Uses	
 COR-COTE HCR NOVOLAC EPOXY is a 100% solids, high chemical resistant, self leveling hybrid novolac epoxy technology that resists aggressive acids, alkalies, and solvents. Its easy to use, rapid setting formulation may reduce costly downtime. Moisture tolerant Low viscosity easily wets out aggregate and reinforcing 				Cor-Cote HCR Novolac Epoxy is used as a binder resin with select aggregate in self-leveling, mortar, and mortar laminate ap- plications.Protects concrete and steel surfaces in immersion and atmospheric exposure. Ideally suited for lining, containment and flooring ap- plications in various facilities including:• Automotive • Electronics • Metal & mining • Power • Water & wastewater • Nuclear Power Plants• Cor-Cote HCR Novolac Epoxy is used as a binder resin with select aggregate in self-leveling, mortar, and mortar laminate ap- plications in various facilities including:• Automotive • Chemical processing • Pode & beverage • Pulp & paper • Pulp & paper			
Pro	<i>DUCT CHA</i>	RACTERISTIC	cs	 Nuclear Power Plan Nuclear fabrication Accoptable for use 	shops • DOE N in USDA inspected	uclear Weapons Facilities	
Finish:	inish: Semi-gloss				 Nuclear fabrication shops DOE Nuclear Weapons Faci Acceptable for use in USDA inspected facilities This product meets specific design requirements for non-sa related nuclear plant applications in Level II, III and Balance Plant, and DOE nuclear facilities*. 		
Color:	Haze	Gray, Tile Red, a	nd Clear				
Volume Solids: 100%, calculated, mixed				* Nuclear qualifications are NRC license specific to the facility. Suitable for use in the Mining & Minerals Industry.			
VOC (calculated): <150 g/L; 1.25 lb/gal, mixed			Performance Characteristics				
Mix Ratio:	4:1			Test Name	Test Method	Results	
Recomm	ended Spre	ading Rate per	coat*'	Abrasion Resis-	ASTM D4060	1000 g 1000 cycles CS-17: 70 mg loss	
*Varies with systems in or as thin fi systems. Not to	em and applie	cation. For use a y. See recomme	as laminating	tance (coating) Adhesion	ASTM D4541	Concrete - 350 psi; Steel - 1200 psi	
Drying Sche	dule @ 20.0	<u>mils wet (500 i</u> @ 73°F/23°C	microns):	Coefficient of Linear Thermal Expansion	ASTM C531 (in/ in/ºF)	Self-leveling - 14 x 10 ⁻⁶ ; Mortar - 13 x 10 ⁻⁶ ; Mortar Lami- nate - 14 x 10 ⁻⁶	
To touch: To recoat: minimum:	12 hours 12 hours	50% RH 6 hours 8 hours	4 hours 6 hours	Compressive Strength	ASTM C579	Self-leveling - 12,000 psi; Mortar - 10,000 psi; Mortar Laminate - 10,800 psi	
maximum: To cure: *Can be topcoated u HS or Steel-Seam F				Critical Radiant Flux*	NFPA 253	1.08 W/cm ² @ 22 mils (550 microns); .95 W/cm ² @ 65 mils (1625 microns)	
If maximum recoat t Drying time is tem		d, abrade surface b lity, and film thickne	•	Durometer Hard- ness (coating)	ASTM D2240	Shore D - 80	
Pot Life: Sweat-in-Time: Shelf Life:	35 minutes	15 minutes None required	10 minutes	Flexural Strength	ASTM C580	Self-leveling - 4,000 psi; Mortar - 4,200 psi; Mortar Lami- nate - 8,300 psi	
		Store indoors at 4 100°F (38°C)	40°F (4.5°C) to	Fuel Contribution*	NFPA 259	6645 btu/lb	
Viscosity (mixe	d):	750 cps		Radiation Tolerance*	ASTM D4082 / ANSI 5.12	Pass at 65 mils (1,625 microns)	
Reducer: Clean Up:		Not recommende Xylene, R2K4	ed	Surface Burning*	ASTM E84/NFPA 255	Flame Spread Index 30; Smoke Development Index 113 (at 22 mils / 550 microns)	
				Tensile Strength	ASTM C307	Self-leveling - 6,000 psi; Mortar - 2,000 psi; Mortar Lami- nate - 5,000 psi	

*Substrate: Concrete

ş	COVER EARTH	Protective & Marine			CO		TE [®] HCR AC EPOXY
SH Wil	ERWIN LLIAMS。	Coatings			Part A Part B	B62-420 B62V420	Series HCR/FF Hardener
Rev	/ised: Febru	ary 23, 2022	Pro		FORMATION	N	TRM.18
	Re	COMMENDED SYS	STEMS		Sur	RFACE PREPA	RATION
	,	lining, containment, floor	Mils	Thickness / ct. (<u>Microns)</u>		t, loose rust, and	nd condition. Remove all other foreign material to
1 ct. /		a-Plate UHS Primer Corobond 100 Epoxy	4.0-8.0 4.0-6.0	(100-200) (100-150)	Refer to product Appl tion information.	ication Bulletin for	detailed surface prepara-
1 ct. (7) 1 ct. 1	Type M Aggree /ields 60-65 se 1.0 oz. glass n	R Epoxy (Clear) with 19-20 gate per 1.25 gallons (4.7L q. ft. (1.5-1.6 m²/L) nat with Cor-Cote HCR		(1500-1625)	Minimum recommend Iron & Steel: Atmospheric: Immersion:	SSPC-SP6/I profile SSPC-SP10	NACE3, 2 mil (50 micron))/NACE 2, 2-3 mil
(Epoxy (Clear) with glass ma Cor-Cote HCF			(500-750) (375-500)	Concrete & Mason Atmospheric: Immersion:	SSPC-SP13	3/) prome 3/NACE 6, or ICRI CSP 3-5 3/NACE 6-4.3.1 or 4.3.2,
1 ct. <i>F</i> <i>F</i> 1 ct. (1) 1 ct. 1	For Concrete: Primer/Sealer Cor-Cote HCF Type M Aggrey rields 60-65 so 10.0 oz. wovel	a-Plate UHS Primer Corobond 100 Epoxy & Epoxy (Clear) with 19-20 gate per 1.25 gallons (4.7L q. ft. (1.5-1.6 m²/L) n roving fiberglass mat with	65.0	(100-200) (100-150) (1625)	Sun Condi Surfac White Metal Commercial Blast Brush-Off Blast Hand Tool Cleaning Pitted	or ICRI No. rface Preparation Sta ition of ISO 8501-1	310.2R CSP 3-5 Indards Swedish Std.
Cor-Cote HCR Epoxy (Clear) saturant (with woven roving) 1 ct. Cor-Cote HCR Epoxy (Clear) with 19-20		bs	(750-1125)		Tinting		
		gate per 1.25 gallons (4.7L q. ft. (1.5-1.6 m²/L)) 65.0	(1625)	Do not tint.		
1 ct. (1 ct. (7	Corobond 100 Cor-Cote HCF Type S Aggreo vields 50-56 se	r (horizontal only) Epoxy Primer/Sealer Epoxy with 19 lbs. gate per 1.25 gallons (4.7L) q. ft. (1.2-1.4 m²/L) & FF Flake Filled Epoxy		(100-150) (1500-1750) (375-500)	APPL Temperature: Relative humidity:	maximum (air. surface)	minimum, 90°F (32°C) , material) (2.8°C) above dew point
Mortar		Epoxy Primer/Sealer	4060	(100, 150)			iled application information.
1 ct. 0	Cor-Cote HCF gallons (4.7L)	R Epoxy with 19-20 lbs Type @ 3/16" dft yields 40-44 sc	. ft. (0.9-1.	0 m²/L)	ORD	ering Infor	MATION
1 ct. (R Epoxy R FF Flake Filled Epoxy		(375-500) (375-500)	Packaging: Part A: Part B:		′8L) and 4 gallons (15.1L) 4L) and 1 gallon (3.78L)
1 Ct. C	Concrete 1 Ct. Corobond 100 primer @ 1 Ct. Cor-Cote HCR @		2.0-4.0 (50-100) 15.0-20.0 (375-500)		SAI	FETY PRECAU	ITIONS
1 Ct. Cor-Cote HCR FF @		15.0-20.0 (375-500)		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			
		above are representative o	f the produ	ıct's use, other	Contact your Sherwin-Wil	liams representative for	or additional technical data and
system	is may be app	•				WARRANT	
based u Such int pertain William	upon tests conc formation and re to the product	Disclaimer ecommendations set forth in t lucted by or on behalf of The s ecommendations set forth here offered at the time of publicat e to obtain the most recent P	Sherwin-Wil ein are subje ion. Consu	liams Company. ct to change and lt your Sherwin-	ing defects in accord with a Liability for products proven tive product or the refund determined by Sherwin-W OF ANY KIND IS MADE B	applicable Sherwin-Will n defective, if any, is lim of the purchase pricer /illiams. NO OTHER Y SHERWIN-WILLIAM TION OF LAW OR O	oducts to be free of manufactur- liams quality control procedures. nited to replacement of the defec- paid for the defective product as WARRANTY OR GUARANTEE MS, EXPRESSED OR IMPLIED, THERWISE, INCLUDING MER- JLAR PURPOSE.

Protective			COR-COTE® HCR			
COVER THE EARTH	&				NOVOL	AC EPOXY
	Marine					
Sherwin Williams.	Coatings			Part A Part B	B62-420 B62V420	Series HCR/FF Hardener
Revised: Februa	ary 23, 2022	Αρρι		ON BULLETIN	N	TRM.18
Su	RFACE PREPAR	ATIONS		Appli	CATION CON	DITIONS
	lean, dry, and in soun dirt, loose rust, and o adhesion.			Temperature:	maximum (air, surface,	minimum, 90°F (32°C) material) (2.8°C) above dew point
Iron & Steel (imm Remove all oil and	grease from surface	by Solvent C	leaning per	Relative humidity:	85% maximu	ım
Blast Cleaning per	num surface preparati SSPC-SP10/NACE 2	on is Near V . Blast clean	all surfaces	Application Equipment		
using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). Remove all weld spatter and round all sharp edges. Prime any bare steel the same day as it is cleaned or before flash rusting occurs. 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			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			
			ercial Blast mance, use CE 2. Blast	existing environmental and application conditions. ReducerNot recommended		
clean all surfaces surface profile (2 m day as it is cleaned	using a sharp, angula hils / 50 microns).Prime d or before flash rustin	ar abrasive f any bare ste g occurs.	or optimum el the same	CleanupXylene, R2K4		
Concrete and Masonry For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 3-5. 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:				Airless Spray: Pump		
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.			Brush	Natural brist small areas	le for applications in	
			Cover Ribbed roller			
Concrete, Immersion Service: For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2R, CSP 3-5.			Trowel: Notched trowel Flat trowel	For self-leve	ling applications	
				Squeegee: Notched squeegee Flat squeegee		
White Metal Near White Metal Commercial Blast Brush-Off Blast Hand Tool Cleaning	rface BS7079:A1 Sa 3 Sa 2.5 Sa 2 Sa 1	Swedish Std. SIS055900 S Sa 3 S Sa 2.5 S Sa 2 S Sa 1 S	SPC NACE P5 1 P10 2 P6 3 P7 4 P2 - P2 - P2 - P2 - P2 - P2 - P3 -	If specific application of equipment may be sub		listed above, equivalent



APPLICATION BULLETIN

APPLICATION PROCEDURES

Consult your Sherwin-Williams Representative for detailed installation instructions.

Surface preparation must be completed as indicated.

Mixing Instructions:

Premix individual components separately, using a low-speed drill and Jiffy Blade model ES mixer. Make certain no pigment remains on the bottom or sides of the can. Combine one part by volume of Part B to four parts by volume of Part A. Mix with low speed drill and Jiffy Blade model ES mixer for three minutes and until uniform.

For coatings applications:

Combine parts A and B as instructed above. To insure that no unmixed materials remain on the sides and bottom of the cans after mixing, visually observe the container by pouring the material into a separate container. Marbeled or streaky appearance is an indication of improper mixing. Apply via brush, roller or spray to the film thickness and spreading rate indicated below. Vertical surfaces may require 3-4 coats to achieve the desired dry film thickness

Recommended Spreading Rate per coat as a coating:*

*Varies with system and application. See recommended systems. Not to be used as a stand alone coating.

For self-leveling applications:

Combine Parts A and B as instructed above. Slowly add Type S aggregate at 19 to 22 pounds per 1.25 gallons (4.7L) of mixed resin in a mortar mixer. Blend materials until no lumps remain and the aggregate is uniformly mixed with the resin. Apply via notched trowel and/or squeegee to desired thick-ness. Apply topcoats as indicated, following application procedures of the products listed in recommended systems

For mortar applications:

Combine Parts A and B as instructed above. Slowly add Type M aggregate at 19-20 pounds per gallon to the mixed resin in a mortar mixer. Blend materials until no lumps remain and the aggregate is uniformly mixed with the resin. Apply via screed and/or hand trowel to desired thickness. Apply topcoats as indicated, following application procedures of the products listed in recommended systems

For mortar laminate applications:

Combine Parts A and B as instructed above. Slowly add Type M aggregate at 19-20 pounds per 1.25 gallons (4.7L) to the mixed resin in a mortar mixer. Blend materials until no lumps remain and the aggregate is uniformly mixed with the resin. Apply via hand trowel to desired thickness. Apply topcoats as indicated, following application procedures of the products listed in recommended systems.

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.

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.

APPLICATION GUIDELINES

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat*:

*Varies with system and application. For use as laminating resin or as thin film primer only. See recommended systems. Not to be used as a stand alone coating.

Drying Schedule @ 20.0 mils wet (500 microns):						
	@ 50°F/10°C	@ 73°F/23°C	@ 90°F/32°C			
		50% RH				
To touch:	12 hours	6 hours	4 hours			
To recoat:						
minimum:	12 hours	8 hours	6 hours			
maximum:	36 hours	24 hours*	18 hours			
To cure:	7 days	7 days	6 days			
*Can be topcoated up to 30 days after application with either Phenicon HS or Steel-Seam FT910.						
If maximum recoat time is exceeded, abrade surface before recoating.						
Drying time is temperature, humidity, and film thickness dependent.						
Pot Life:	35 minutes	15 minutes	10 minutes			
Sweat-in-Time:		None required				

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

Performance Tips

For concrete, always perform Calcium Chloride test as per ASTM F1869. Do not proceed with MVE >3 lbs.

For steel, stripe coat all chine, welds, bolted connections, and sharp angles to prevent early failure in these areas.

Pot life of this material is moderately short. Working time can be extended by mixing small batches and by getting material out of mixing containers and on to the working surface in desired film thickness as quickly as possible.

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

For Immersion Service: (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

Do not apply material beyond recommended pot life.

Do not mix previously catalyzed material with new.

Consult your Sherwin-Williams representative for specific application and performance recommendations.

Refer to Product Information sheet for additional performance characteristics and properties.

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.