Cover	Protec &		FLAK			HCR FF
SHERWIN WILLIAMS.	Mari Coati			Part A Part B	B62-425 B62V420	Series HCR/FF Hardener
Revised: May 4,	2021	Pro	DDUCT IN	IFORMATIO	N	TRM.19
Pi	RODUCT D	ESCRIPTION	1	RE	COMMENDED	Uses
COR-COTE HCR FF FLAKE FILLED NOVOLAC EPOXY is a 100% solids, high chemical resistant hybrid novolac epoxy coating and lining that resists aggressive acids, alkalies, and solvents. Overlapping glass flakes reduce permeability, providing excellent performance in immersion service.				Cor-Cote HCR FF Flake Filled Novolac Epoxy is used as a coat- ing/lining and as a topcoat for self-leveling, mortar and mortar laminate applications. Protects concrete and steel surfaces in immersion and atmospheric exposure in tank linings, secondary containment, and process		
 Low permeation Moisture toleran Glass flake addition 	t tion enhances			flooring applicationsAutomotiveElectronicsMetal & mining	ChemFoodPharm	nical processing & beverage naceutical
PRO		RACTERISTI	CS	PowerWater & wastewat	Pulp 8 er Petroe	& paper chemical
Color:		-gloss		 Acceptable for use Suitable for use in 		
Volume Solids:		Gray, Tile Red	od		MANCE CHARA	-
VOC (calculated):		g/L; .83 lb/gal, m				
Mix Ratio:	4:1	g/∟, .o5 ib/gai, ii	lixeu	Test Name Abrasion	Test Method	Results 1000 g 1000 cycles
		adina Pata na	r oost:	Resistance	ASTM D4060	CS-17; 85 mg loss
Recomm	<u>iended Spre</u>	<u>ading Rate pe</u> Minimum	Maximum	Adhesion (Concrete)	ASTM D4541	350 psi, 100% concrete failure
Wet mils (micron Dry mils (micror		15.0 (375) 15.0 (375)	20.0 (500) 20.0 (500)	Durometer Hardness	ASTM D2240	Shore D - 90
~Coverage sq f	t/gal (m²/L)	80 (2.0)	100 (2.45)	Flammability	ASTM D635	Self-extinguishing over concrete
(m²/L) @ 1 mil / 25 NOTE: Brush o	i microns dft or roll applicatio	1600 (39.2) n may require mu	ltiple coats to	Water Vapor Transmission	ASTM E96	0.0016 perm in
achieve maximul	m film thicknes	s and uniformity o	f appearance.	Transmission		
	dule @ 15.0 @ 50°F/10°C 12 hours	mils wet (375 @ 73°F/23°C 50% RH 6 hours	<u>microns):</u> @ 90°F/32°C 3 hours			
To recoal. minimum: maximum: To cure: If maximum recoat t Drying time is temp Pot Life:			-			
Sweat-in-Time:		None required				
Shelf Life:		36 months Store indoors at 100°F (38°C)	40°F (4.5°C) to			
Viscosity (mixe Reducer: Clean Up:	d):	10,000 - 15,00 Not recommend Xylene, R2K4				

	COMPR	Protective & Marine	,	FLAM			HCR FF AC EPOXY
SI VV	HERWIN (ILLIAMS.	Coatings			Part A Part B	B62-425 B62V420	Series HCR/FF Hardener
Re	evised: May 4,	2021	Pro	DUCT IN	FORMATIO	N	TRM.19
	Re	COMMENDED SY	STEMS		Su	RFACE PREPA	RATION
			Dry Film Tl <u>Mils</u>	hickness / ct. (Microns)			ondition. Remove all oil, dust, material to ensure adequate
Medi 1 ct. 1 ct.	um Film Lining Macropoxy 240 (as required for Steel-Seam FT sharp edges, w) r blast hold primer) 910 as required for filling /eld seams, etc.	1.0-1.5 pits and tra	(25-40) Insitioning	adhesion.	ication Bulletin for def	ailed surface preparation in-
	Cor-Cote HCR	FF Flake Filled Epoxy	15.0 -20.0	· /	Iron & Steel: Atmospheric:	SSPC-SP6/N	ACE 3, 2 mil (50 micron)
Flexi 1 ct. 1 ct. 1 ct. 1 ct. 1 ct.	ble Làminate Corobond 100 Steel-Seam FT concrete General Polym Cor-Cote HCR glass mat (with	(clear) with 1 oz	4.0-6.0	, (100-150)	Immersion: Concrete & Masonr Atmospheric: Immersion:	(50-75 micron y: SSPC-SP13/I ICRI No. 310.	NACE 6, or 2R, CSP 3-5 NACE 6-4.3.1 or 4.3.2 or
Steel		ining, containment, floo		(0.0.000)	Con	urface Preparation Sta dition of ISO 8501-1	Swedish Std.
1 ct. 1 ct.	For Steel: Dura For Concrete: O Primer/Sealer Steel-Seam FT sharp edges, w bugholes on co	a-Plate UHS Primer Corobond 100 Epoxy '910 as required for filling /eld seams, etc. on steel,	4.0-8.0 4.0-6.0 pits and tra for filling vo 15.0-20.0	(100-200) (100-150) insitioning ids and (375-500)	White Metal Near White Metal Commercial Blast Brush-Off Blast Hand Tool Cleaning Power Tool Cleaning Pitte	Sa 3 Sa 2.5 Sa 2 Sa 1 ted C St 2 d & Rusted D St 2	Sisossou SPC NACE Sa 3 SP5 1 Sa 2.5 SP10 2 Sa 2 SP6 3 Sa 1 SP7 4 C St 2 SP2 - D St 2 SP2 - C St 3 SP3 - D St 3 SP3 -
	arLaminate		4 0 0 0	(100,000)		TINTING	
	For Concrete: Primer/Sealer Steel-Seam FT	a-Plate UHS Primer Corobond 100 Epoxy 910 as required for filling	4.0-8.0 4.0-8.0 pits and tra	(100-200) (100-200)	Do not tint.		
1 ct	bugholes on co	veld seams, etc. on steel oncrete (Clear) with 25 lbs	for ming voi	us anu	Temperature:	LICATION CON 50°F (10°C) n	ninimum, 90°F (32°C)
1 ct.	Type M Aggrega yields 60-65 sc 1.0 oz. glass m (Clear) saturan	ate per 1.25 gallons (4.7L) j. ft. (1.5-1.6 m ² /L) hat with Cor-Cote HCR it (with glass mat) FF Flake Filled Epoxy	60.0-65.0 20.0-30.0 15.0-20.0	(1500-1625) (500-750) (375-500)	Relative humidity:	maximum (air, surface, r	naterial) 2.8°C) above dew point
	y Duty Mortar		10.0 20.0	(0/0 000)	Refer to product Applic	cation Bulletin for deta	iled application information.
1 ct.	For Concrete:	a-Plate UHS Primer Corobond 100 Epoxy	4.0-8.0 4.0-8.0	(100-200) (100-200)	Ori	DERING INFOR	MATION
	Type M Aggrega yields 60-65 sc	Epoxy (Clear) with 25 lbs ate per 1.25 gallons (4.7L) J. ft. (1.5-1.6 m ² /L)	60.0-65.0	(1500-1625)	Packaging: Part A: Part B:	0 (L) and 4 gallons (15.1L) .) and 1 gallon (3.78L)
T CL		n roving fiberglass mat HCR (Clear) saturant ving)	30.0-40.0	(750-1125)	S	AFETY PRECAU	
1 ct.	Cor-Cote HCR Type M Aggrega	Epoxy (Clear) with 25 lbs ate per 1.25 gallon (4.7L) J. ft. (1.5-1.6 m²/L)	60.0-65.0	(1500-1625)	Refer to the SDS sheet Published technical data Contact your Sherwin-W	before use.	ubject to change without notice.
The systems listed above are representative of the product's use, other systems may be appropriate				uct's use, other	instructións.	1/40044/7	
systems may be appropriate.					 The Sherwin-Williams C	ompany warrants our pro	oducts to be free of manufactur-
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.				lliams Company. ect to change and Ilt your Sherwin-	ing defects in accord with Liability for products prov tive product or the refund determined by Sherwin- OF ANY KIND IS MADE	n applicable Sherwin-Will ren defective, if any, is lim d of the purchase price r Williams. NO OTHER BY SHERWIN-WILLIAM ATION OF LAW OR O	liams quality control procedures. ited to replacement of the defec- baid for the defective product as WARRANTY OR GUARANTEE IS, EXPRESSED OR IMPLIED, IFHERWISE, INCLUDING MER-

Protective	COR-COTE® HCR FF		
& FLAK	E FILLED NOVOLAC EPOXY		
Marine			
SHERWIN WILLIAMS. Coatings	Part A B62-425 Series Part B B62V420 HCR/FF Hardener		
Revised: May 4, 2021 APPLICATIO	N BULLETIN TRM.19		
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:50°F (10°C) minimum, 90°F (32°C) maximum (air, surface, material) At least 5°F (2.8°C) above dew point		
Iron & Steel (immersion service) Remove all oil and grease from surface by Solvent Cleaning per	Relative humidity: 85% maximum		
SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3)	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.	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.		
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 / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.	Reduction Not recommended Cleanup Xylene, 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.	Airless Spray: Pump45:1 Gun		
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.	Brush: BrushNatural bristle for applications in small areas		
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.	Roller: Cover		
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.	Flat squeegeeFor horizontal applications followed by back roll with 3/8" nap roller		
	If specific application equipment is not listed above, equivalent equipment may be substituted.		
Surface Preparation StandardsCondition of SurfaceISO 8501-1 BS7079:A1Swedish Std. SU855900SSPCNACEWhite MetalSa 3 Sa 2.5Sa 3 Sa 2.5Sp 102Commercial BlastSa 2.5 Sa 2.5Sa 2.5 Sa 2.5Sp 63Brush-Off BlastSa 4.1 Sa 1Sa 1 Sa 2.5Sp 74Hand Tool CleaningRusted Pitted & RustedCst 2 D St 2Cst 2 D St 3Sp 2 Sp 3-			

Protective	COR-COTE® HCR FF
& FLAM	KE FILLED NOVOLAC EPOXY
Marine	
SHERWIN WILLIAMS. Coatings	Part A B62-425 Series Part B B62V420 HCR/FF Hardener
Revised: May 4, 2021 APPLICATIO	N BULLETIN TRM.19
Application Procedures	Performance Tips
Surface preparation must be completed as indicated.	For concrete, always perform Calcium Chloride test as per ASTM F1869. Do not proceed with MVE >3 lbs.
Mixing Instructions: For coating applications, premix individual components sepa- rately, using a low-speed drill and Jiffy Blade model ES mixer. Make certain no pigment or glass flake 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. 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. Marbled or streaky appearance is an indication of improper mixing. Apply paint at the recommended film thickness and spreading rate as indicated below:	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 short. Working time can be extended by mixing small batches and by getting material out of mixing con- tainers 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 po- rosity 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
Recommended Spreading Rate per coat:	film build.
Minimum Maximum Wet mils (microns) 15.0 (375) 20.0 (500) Dry mils (microns) 15.0 (375) 20.0 (500) ~Coverage sq ft/gal (m²/L) 80 (2.0) 100 (2.45) Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft 1600 (39.2) NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. Drying Schedule @ 15.0 mils wet (375 microns): @ 50°F/10°C @ 73°F/23°C @ 90°F/32°C	 For Immersion Service: (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete. Cor-Cote HCR FF may discolor over time and is not intended for use as a decorative coating. 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.
50% RHTo touch:12 hours6 hours3 hoursTo recoat:	Refer to Product Information sheet for additional performance characteristics and properties.
Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating	SAFETY PRECAUTIONS
performance.	Refer to the SDS sheet before use.
CLEAN UP INSTRUCTIONS Clean spills and spatters immediately with Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. Follow manufacturer's safety	Published technical data and instructions are subject to change without notice Contact your Sherwin-Williams representative for additional technical data and instructions.
recommendations when using any solvent.	WARRANTY
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	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 produc 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.