OVER E ARTH	Protec & Mar	·			ATI-CO	
SHERWIN WILLIAMS.	Coati			Part A Part B	B42W400 B42V401	Off White Hardener
Revised: May 9,	2022	Pr	ODUCT I	FORMATIO	N	4.21
Pi	RODUCT D	ESCRIPTION	1	RE	COMMENDED U	SES
<b>KEM CATI-COAT HS EPOXY FILLER/SEALER</b> is a high perfor- mance, interior/exterior, epoxy block filler. Designed for tenacious adhesion to masonry substrates while filling voids and crevices to smooth the surface. Excellent resistance to moisture, humidity, impact, and abrasion.					nasonry surfaces, in	
<ul> <li>Chemical resistant</li> <li>Long pot life</li> <li>Resurfaces spalled and deteriorated concrete</li> </ul> <b>PRODUCT CHARACTERISTICS</b>			<ul> <li>Tunnels</li> <li>Prisons</li> <li>Nuclear Power Pla</li> <li>Nuclear fabrication</li> <li>Suitable for use in</li> <li>This product meets</li> </ul>	Schools     Equipme     tops     DOE Nuc     shops     DOE Nuc     USDA inspected facili     specific design require	nt foundations clear Fuel Facilities clear Weapons Facilities	
Finish: Color:	Flat Off V	<i>I</i> hita		Plant, and DOE nu	iclear facilities*.	
Volume Solids: Weight Solids:	72% 84%	± 2%, mixed ± 2%, mixed	mixed	Acceptable for use in	ns are NRC license sp Canadian Food Proces ic part numbers/rexes	ssing facilities (Confirm
VOC (EPA Method Mix Ratio:		g/L; 2.08 lb/gal, nponents, 1:1 by		Perform	MANCE CHARAC	TERISTICS
Recomm Wet mils (micro Dry mils (micror ~Coverage sq f Theoretical covera	ns) ns) <b>t/gal</b> (m²/L)	ading Rate pe Minimum 14.0 (350) 10.0 (250) 60 (1.48)	r coat: Maximum 28.0 (700) 20.0 (500) 115 (2.8)	System Tested*:	<b>n*:</b> Clean, dry, sound t HS @ 15.0 mils (375	μ) dft
(m²/L) @ 1 mil / 25	microns dft	<b>1152</b> (28.2)		Test Name	Test Method ASTM D3359.	Results
achieve maximu	m film thicknes	n may require mu s and uniformity o	itiple coats to f appearance.	Adhesion	Method B	5B, 100% retention
		<u>mils wet (375</u>		Nuclear Decontamination	ASTM D4256/ ANSI N 5.12	98% Water Wash; 96% Overall
	@ 55°F/13°C	@ 77°F/25°C 50% RH	@ 100°F/38°C	Direct Impact Resistance	TTC-555B, 4.4.4	Minimum resistance at 6 in. lbs.
To touch: To recoat: minimum: maximum:	3 hours 24 hours 30 days	1-3 hours 18 hours 30 days	30 minutes 6 hours 30 days	Dry Heat Resistance	ASTM D2485	250°F (121°C), 275°F (135°C) intermittent
To cure: If maximum recoat t	4 days	1 day	12 hours	Flame Spread Rating	ASTM E-84 Tunnel Test	Class A on noncom- bustible surfaces
Drying time is tem Pot Life:	<i>perature, humi</i> 12 hours	dity, and film thickn 8 hours	ess dependent. 2 hours	Flexibility (cold rolled steel)	TTC-555B, 4.4.3, 1" mandrel	Passes
Sweat-in-time:	60 minutes	30 minutes	15 minutes	Freeze/Thaw	ASTM D2246, 20 cycles	Passes
Shelf Life: Flash Point:		12 months, unc Store indoors a to 100°F (38°C 103°F (39°C), F	at 40°F (4.5°C) ).	Humidity Resistance	ASTM D2247, 100°F (38°C), 1000 hours	Passes, no blistering or loss of adhesion
Reducer/Clean	Up¹:	VOC Restricte q/L): use	d Areas (<250 11 or Oxsol 100	Radiation Tolerance	ASTM D4082 / ANSI 5.12	Pass at 40 mils (1000 microns)
<sup>1</sup> Other areas (<340 g up to 12.5%. Choos compliance with stat	se a reducer th	, Oxsol 100, or Redu at is compliant in y	cer #145 (R7K145) our area. Confirm	Wind Driven Rain Epoxy coatings may curing.	TTC-555B, 4.4.7 darken or yellow foll	Passes owing application and

COVER	Protective & Marine			DAT <sup>®</sup> HS R/SEALER	
SHERWIN WILLIAMS.	Coatings	Part A Part B	B42W400 B42V401	Off White Hardener	
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Re	commended Systems	S	URFACE PREPAR	RATION	
Concrete/Masonr 1-2 cts. Kem Cati- Filler/Seale as required to fill v 1-2 cts. Recomme	<b>y:</b> Coat HS Epoxy er 10.0-20.0 (250- oids and provide a continuous substrat	rons)Surface must be oil, dust, grease, ensure adequate500)Refer to product A tion information.	dirt, loose rust, and o adhesion. Application Bulletin for o	d condition. Remove all ther foreign material to detailed surface prepara-	
Recommended Topcoats: Acrolon 218 HS Polyurethane Pro Industrial DTM Acrylic Coating Epo-Plex Multi-Mil Epoxy Hi-Solids Polyurethane Macropoxy HS Epoxy Sher-Cryl HPA Sherthane 2K Urethane Tile-Clad HS Epoxy Waterbased Catalyzed Epoxy Waterbased Tile-Clad Epoxy		Concrete/Maso	Commercial Blast Sa 2 Sa 2 SP 6 3 Brush-Off Blast Sa 1 Sa 1 SP 7 4		
Recommended topcoats for secondary containment: Cor-Cote E.N. 7000		Do not tint.	Tinting		
Phenicon HS Shelcote II			APPLICATION CONDITIONS		
Recommended topcoats for immersion service: (water and wastewater only) Dura-Plate 235 Sher-Glass FF Tank Clad HS TarGuard Coal Tar Epoxy		Temperature: Relative humidity	45°F (7°C) m maximum (air, surface, a At least 5°F (2 85% maximu	inimum, 100°F (38°C) and material) 2.8°C) above dew point	
The systems listed	above are representative of the produc	t's use, O	Ordering Information		
other systems may be appropriate.		Packaging: Part A: Part B:	5 gallon (18.9 5 gallon (18.9	0L) containers	
		Weight:		gal ; 1.6 Kg/L, mixed	
			SAFETY PRECAUTIONS Refer to the SDS sheet before use.		
		Published technical d	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and		
	-		WARRANTY	·	
based upon tests cond Such information and re pertain to the product of	<b>Disclaimer</b> commendations set forth in this Product Data S ucted by or on behalf of The Sherwin-Williams C commendations set forth herein are subject to ch offered at the time of publication. Consult your a to obtain the most recent Product Data Inform	Sheet are Company: ange and Sherwin- ation and	vith applicable Sherwin-Willia roven defective, if any, is limit und of the purchase price pa rin-Williams. NO OTHER W DE BY SHERWIN-WILLIAMS	ducts to be free of manufactur- ams quality control procedures. ed to replacement of the defec- aid for the defective product as /ARRANTY OR GUARANTEE S, EXPRESSED OR IMPLIED, HERWISE, INCLUDING MER- LAR PURPOSE.	



# KEM CATI-COAT<sup>®</sup> HS EPOXY FILLER/SEALER

Part A	B42W400
Part B	B42V401

Off White Hardener

4.21

Revised: May 9, 2022

## APPLICATION BULLETIN

## SURFACE PREPARATIONS

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.

## Masonry and Block

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.

## **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 Kem Cati-Coat.

## 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 of Concrete

## 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.

## **APPLICATION CONDITIONS**

Temperature:

45°F (7°C) minimum, 100°F (38°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point

Relative humidity:

85% maximum

## 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/Clean Up<sup>1</sup> ......VOC Restricted Areas (<250 g/L): use Reducer R7K111 or Oxsol 100

<sup>1</sup>Other areas (<340 g/L): use R7K111, Oxsol 100, or Reducer #145 (R7K145) up to 12.5%. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

## **Airless Spray**

Pump	30:1
Pressure	3000-3400 psi
Hose	3/8" ID
Тір	019"023"
Reduction	As needed up to 12.5% by volume

## Brush

Brush.....Natural Bristle Reduction.....As needed up to 12.5% by volume

## Roller

Cover	
Reduction	.As needed up to 12.5% by volume

## Squeegee

Reduction.....As needed up to 12.5% by volume

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

Surface Preparation Standards					
	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal Near White Metal		Sa 3 Sa 2.5	Sa 3 Sa 2.5	SP 5 SP 10	1 2
Commercial Blast Brush-Off Blast		Sa 2 Sa 1	Sa 2 Sa 1	SP 6 SP 7	3 4
Hand Tool Cleaning	Rusted Pitted & Rusted	C St 2 D St 2	C St 2 D St 2	SP 2 SP 2	-
Power Tool Cleaning	Rusted Pitted & Rusted	C St 3 D St 3	C St 3 D St 3	SP 3 SP 3	-



# KEM CATI-COAT<sup>®</sup> HS EPOXY FILLER/SEALER

Part A	B42W400	OFF WHITE
Part B	B42V401	HARDENER

Revised: May 9, 2022

## APPLICATION BULLETIN

4.21

#### **APPLICATION PROCEDURES PERFORMANCE TIPS** When using spray application, use a 50% overlap with each pass Surface preparation must be completed as indicated. of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross sprav at a right angle. Mixing Instructions: Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains Spreading rates are calculated on volume solids and do not include on bottom of can. Then combine 1 part by volume of part A with an application loss factor due to surface profile, roughness or po-1 part by volume of Part B. Thoroughly agitate the mixture. Allow material to sweat-in as indicated. Re-stir before using. rosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during If reducer solvent is used, add only after both components have mixing, spillage, overthinning, climatic conditions, and excessive been thoroughly mixed, after sweat-in. film build. Apply paint at the recommended film thickness and spreading rate as indicated below: Excessive reduction of material can affect film build, appearance, and adhesion. Recommended Spreading Rate per coat: Minimum Maximum Excessive film build, poor ventilation, and cool temperatures may Wet mils (microns) 14.0 (350) **28.0** (700) cause solvent entrapment and premature coating failure. Dry mils (microns) 10.0 (250) 20.0 (500) ~Coverage sq ft/gal (m<sup>2</sup>/L) **60** (1.48) 115 (2.8) Do not apply the material beyond recommended pot life. Theoretical coverage sq ft/gal **1152** (28.2) (m<sup>2</sup>/L) @ 1 mil / 25 microns dft Do not mix previously catalyzed material with new. NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. Depending on condition of substrate, more than one coat may be required. Drying Schedule @ 15.0 mils wet (375 microns): @ 77°F/25°C @ 100°F/38°C @ 55°F/13°C Do not apply under 50 sq ft/gal or mudcracking may occur. 50% RH To touch: 3 hours 1-3 hours 30 minutes Not recommended for previously painted surfaces. To recoat: minimum: 24 hours 18 hours 6 hours Temperatures above 77°F (25°C) will shorten pot life. maximum: 30 days 30 days 30 days To cure: 4 days 1 day 12 hours For best results, apply by airless spray and immediately back If maximum recoat time is exceeded, abrade surface before recoating. roll. Drying time is temperature, humidity, and film thickness dependent. Pot Life: 2 hours 12 hours 8 hours Do not apply over moisture, or below 45°F (7°C). Sweat-in-time: 60 minutes 30 minutes 15 minutes Refer to Product Information sheet for additional performance Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating characteristics and properties. performance. SAFETY PRECAUTIONS Refer to the SDS sheet before use **CLEAN UP INSTRUCTIONS** Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and Clean spills and spatters immediately with Reducer #145, R7K145. Clean tools immediately after use with Reducer #145, R7K145. instructions Follow manufacturer's safety recommendations when using any solvent. WARRANTY The Sherwin-Williams Company warrants our products to be free of manufacturing DISCLAIMER defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the de-The information and recommendations set forth in this Product Data Sheet are fective product or the refund of the purchase price paid for the defective product based upon tests conducted by or on behalf of The Sherwin-Williams Company. as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE Such information and recommendations set forth herein are subject to change and OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, pertain to the product offered at the time of publication. Consult your Sherwin-STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER-

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Williams representative to obtain the most recent Product Data Information and

Application Bulletin.