

KEM CATI-COAT® HS EPOXY FILLER/SEALER

PART A PART B

B42W400 B42V401

OFF WHITE HARDENER

PRODUCT INFORMATION

4.21

PRODUCT DESCRIPTION KEM CATI-COAT HS EPOXY FILLER/SEALER is a high performance, interior/exterior, low VOC, 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. · Chemical resistant

Long pot life

Revised 9/09

· Resurfaces spalled and deteriorated concrete

PRODUCT CHARACTERISTICS

Finish:	Flat	
Color:	Off White	
Volume Solids:	72% ± 2%, mixed	
Weight Solids:	84% ± 2%, mixed	
VOC (EPA Method 24): mixed	Unreduced: <250 g/L; 2.08 lb/gal Reduced 12½%: <320 g/L; 2.66 lb/gal	
Mix Ratio:	2 components, 1:1 by volume	

Recommended Spreading Rate per coat:

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		Minimum	Maximum
Wet mils (micro	ons)	14.0 350	28.0 700
Dry mils (micro	ns)	10.0 250	20.0 500
~Coverage sq	ft/gal (m²/L)	60 1.48	115 2.8
Theoretical covera (m²/L) @ 1 mil / 2	age sq ft/gal 5 microns dft	1152 28.2	
NOTE: Brush achieve maximu	or roll applicatio um film thicknes	on may require mu is and uniformity o	ltiple coats to f appearance.
Drying Sche	edule @ 15.0) mils wet (375	microns):
	@ 55°F/13°C	@ 77°F/25°C	@ 100°F/38°C
		50% RH	
To touch:	3 hours	1-3 hours	30 minutes
To recoat:			
minimum:	24 hours	18 hours	6 hours
maximum:	30 days	30 days	30 days
To cure:	4 days	1 day	12 hours
If maximum recoat	time is exceede	ed, abrade surface	before recoating.
Drying time is terr	nperature, humic	dity, and film thickn	less dependent.
Pot Life:	12 hours	8 hours	2 hours
Sweat-in-time:	60 minutes	30 minutes	15 minutes
Shelf Life:		12 months, und Store indoors a to 100°F (38°C	ppened at 40°F (4.5°C)).
Flash Point: Reducer/Clean	Up:	103°F (39°C), F Reducer #149 R7K111 exemp	PMCC, mixed 5, R7K145 or t solvent
In California:		Use Oxsol 100 (exempt solvent)

Recommended Uses

Acceptable for use in immersion service with recommended topcoat.

For use over prepared concrete and masonry surfaces, in areas such as: · Chemical plants

> Tunnels Prisons

- Secondary containment
- Nuclear power facilities
- Schools
- Equipment foundations
- · Suitable for use in USDA inspected facilities

Performance Characteristics

Substrate*: Concrete

Surface Preparation*: Clean, dry, sound

System Tested*:

1 ct. Kem Cati-Coat HS @ 15.0 mils (375 µ) dft *unless otherwise noted below

Test Name	Test Method	Results
Adhesion	ASTM D3359, Method B	5B, 100% retention
Direct Impact Resistance	TTC-555B, 4.4.4	Minimum resistance at 6 in. lbs.
Dry Heat Resistance	ASTM D2485	250°F (121°C), 275°F (135°C) intermittent
Flame Spread Rating	ASTM E-84 Tunnel Test	Class A on noncom- bustible surfaces
Flexibility (cold rolled steel)	TTC-555B, 4.4.3, 1" mandrel	Passes
Freeze/Thaw	ASTM D2246, 20 cycles	Passes
Humidity Resistance	ASTM D2247, 100°F (38°C), 1000 hours	Passes, no blistering or loss of adhesion
Irridation-Effects on Coatings used in Nuclear Power Plants	ANSI 5.12 / ASTM D4082-89	Passes
Wind Driven Rain	TTC-555B, 4.4.7	Passes

Epoxy coatings may darken or yellow following application and curing.



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Recommended Systems	SURFACE PREPARATION		
Dry Film Thickness / ct. MilsMils(Microns)Concrete/Masonry:	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. Refer to product Application Bulletin for detailed surface prepara- tion information.		
Recommended Topcoats: Acrolon 218 HS Polyurethane 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	Minimum recommended surface preparation: Concrete/Masonry: SSPC-SP13/NACE 6, or ICRI 03732, CSP 3-5 Surface Preparation Standards Condition of ISO 8501-1 Swedish Std. Surface BS7079.41 SISO55900 SSPC NACE White Metal Sa 2.5 SA 2.5 SP 10 2 Commercial Blast Sa 2.5 SP 10 2 Commercial Blast Sa 2.5 SA 2.5 SP 10 2 Commercial Blast Sa 2.5 SP 10 2 Surface DS12 CS12 SP 2 - Pitted & Rusted D St 2 D St 2 SP 2 - Rusted C St 3 D St 3 SP 3 -		
Recommended topcoats for secondary containment:	TINTING		
Cor-Cote E.N. 7000	Do not tint.		
Shelcote II	APPLICATION CONDITIONS		
Recommended topcoats for immersion service: <i>(water and wastewater only)</i> Dura-Plate 235 Macropoxy 646 TarGuard Coal Tar Epoxy	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 85% maximumRelative humidity:85% maximumRefer to product Application Bulletin for detailed application information.		
The systems listed above are representative of the product's use,	Ordering Information		
other systems may be appropriate.	Packaging: Part A:5 gallon (18.9L) containers part B:Part B:5 gallon (18.9L) containersWeight:13.4 ± 0.2 lb/gal : 1.6 Kg/L, mixed		
	SAFETY PRECAUTIONS		
	Refer to the MSDS 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.		
Dura	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 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 defec- tive 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.		



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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

Revised 9/09

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 03732, 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.

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.

Concrete, Immersion Service:

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI 03732, CSP 3-5.

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

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 UpReducer #145, R7K145 In California.....Use Oxsol 100 (exempt solvent)

Airless Spray

Pump	.30:1
Hose	.3/8" ID
Тір	019"023"
Reduction	As needed up to 121/2% by volume

Brush

Brush	Natural Bristle
Reduction	As needed up to 121/2% by volume

Roller

Cover	3/8-1/2" woven with solvent resistant core
Reduction	As needed up to 121/2% by volume

Squeegee

Reduction.....As needed up to 121/2% by volume

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



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APPLICATION BULLETIN

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Application Procedures	PERFORMANCE TIPS
Surface preparation must be completed as indicated. Mixing Instructions: Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on bottom of can. Then combine 1 part by volume of part A with 1 part by volume of Part B. Thoroughly agitate the mixture. Allow material to sweat-in as indicated. Re-stir before using. If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in. Apply paint at the recommended film thickness and spreading rate as indicated below: Recommended Spreading Rate per coat:	 When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle. 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. Excessive reduction of material can affect film build, appearance, and adhesion. Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure. Do not apply the material beyond recommended pot life. Do not mix previously catalyzed material with new.
achieve maximum film thickness and uniformity of appearance.	Depending on condition of substrate, more than one coat may be
Drying Schedule @ 15.0 mils wet (375 microns):	required.
@ 55°F/13°C @ 77°F/25°C @ 100°F/38°C 50% RH	Do not apply under 50 sq ft/gal or mudcracking may occur.
To touch:3 hours1-3 hours30 minutesTo recoat:	Not recommended for previously painted surfaces.
minimum: 24 hours 18 hours 6 hours maximum: 30 days 30 days 30 days	Temperatures above 77°F (25°C) will shorten pot life.
To cure: 4 days 1 day 12 hours If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.	For best results, apply by airless spray and immediately back roll.
Pot Life: 12 hours 8 hours 2 hours Sweat-in-time: 60 minutes 30 minutes 15 minutes	Do not apply over moisture, or below 45°F (7°C).
Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating	Refer to Product Information sheet for additional performance characteristics and properties.
penomance.	SAFETY PRECAUTIONS
	Refer to the MSDS sheet before use.
CLEAN UP INSTRUCTIONS	Published technical data and instructions are subject to change without notice
Clean spills and spatters immediately with Reducer #145, R7K145. Clean tools immediately after use with Reducer #145, R7K145.	Contact your Sherwin-Williams representative for additional technical data and instructions.
solvent.	WARRANTY
	The Sherwin-Williams Company warrants our products to be free of manufacturing
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.	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.