

Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
 ONE CAPITOL HILL
 PROVIDENCE RI 02908

CREATION DATE : 09-NOV-12
 BID NUMBER: 7458193,
 TITLE: SWIMMING POOL SERVICE - CCRI LINCOLN CAMPUS
 BLANKET START : 01-DEC-12
 BLANKET END : 30-JUN-13
 BID CLOSING DATE AND TIME: 23-NOV-2012 10:30:00

BUYER: Mosca, Gary
 PHONE #: 401-574-8124

**B
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O**
 CCRI CONTROLLER'S OFFICE
 ACCOUNTS PAYABLE
 400 EAST AVENUE
 WARWICK, RI 02886
 US

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 CCRI FLANAGAN CAMPUS
 1762 LOUISQUISSET PIKE
 LINCOLN, RI 02865-4585
 US

Requisition Number: 1289706
 Note to Bidders: Questions concerning this solicitation may be emailed to gary.mosca@purchasing.ri.gov no later than 11/08/12 @ 12:00 NOON (EST). Questions should be submitted in a Microsoft word attachment. Please reference the RFQ # on all correspondence. Questions received if any, will be posted on the internet as an addendum to this solicitation. It is the responsibility of all interested parties to download this information
 Amendment Description: VENDOR QUESTIONS, ATTACHMENTS AND REVISED BID FORM

Line	Description	Quantity	Unit	Unit Price	Total
1	NON-MANDATORY PRE-BID CONFERENCE WILL BE HELD, THURSDAY NOVEMBER 1ST, @ 9:00 AM (EDT) LOCATION: CCRI FLANAGAN CAMPUS 1762 OLD LOUISQUISSET PIKE LINCOLN, RI 02865 PLEASE REPORT TO FIELD HOUSE. LINE ITEM #2 OF BID HAS BEEN DELETED AND REPLACED WITH LINE ITEM #6. PHASE 1 - POOL FILTRATION SERVICE	1.00	Job		
3	PHASE 3 - POOL AREA WALL AND TILE REPAIRS	1.00	Job		
4	PHASE 4 - WALL REPAIRS AND PAINTING	1.00	Job		
5	PHASE 5 - BLEACHER REPAIRS	1.00	Job		
6	PHASE 2 - POOL TILE AND GROUT REPAIRS: PLEASE PROVIDE A PRICE RO RE-GROUT DAMAGED AREAS WITHIN POOL AND POOL AREA. (SQUARE FOOTAGE PROVIDED IS A ESTIMATE) PLEASE PROVIDE A UNIT PRICE PER SQUARE FOOT FOR ANY ADDITIONAL AMOUNTS IF REQUIRED. \$ _____ (PER SQUARE FOOT)	75.00	Square Foot		
7	PHASE 6 - CLEANING AND SEALING OF THE STAINLESS EDGE RETURNS (APPROXIMATELY 227 LINEAR FEET)	227.00	Linear Foot		

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer



State of Rhode Island
Department of Administration / Division of Purchases
One Capitol Hill, Providence, Rhode Island 02908-5855
Tel: (401) 574-8100 Fax: (401) 574-8387

ADDENDUM # 1

11/13/12
RFP #7458193

Title: Swimming Pool Service – CCRI Lincoln Campus

Bid Opening Date & Time: 11/23/12 @ 10:30 AM (EST)

Please note: REVISED BID FORM. Vendor **MUST** utilize revised bid form posted within addendum #1 when submitting bid.

See Attached:

Included in this addendum: Vendor Questions, Pre-Bid Attendance sheet, REVISED BID FORM, Paint Specifications (paint specifications – equivalent products acceptable), Additional Phase #6 added to bid (specifications attached).

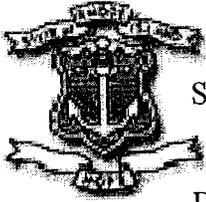
Acknowledge your receipt/understanding of these specifications on your bid. Attach a copy of this addendum to your bid when your bid is submitted.

I confirm receipt and understanding of addendum posted as has incorporated its provisions in my bid package.

Vendor signature required: _____

Interested parties should monitor this website, on a regular basis, for any additional information that may be posted.

Gary P. Mosca
Buyer



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration
DIVISION OF PURCHASES
One Capitol Hill
Providence, RI 02908-5855

Tel: (401) 574-8100
Fax: (401) 574-8387
Website: www.purchasing.ri.gov

11/14/12

PHASE 6 -

CLEANING AND SEALING OF THE STAINLESS EDGE RETURNS

Stainless Steel cleaning:

1. Clean all Stainless Steel with a mild, **Non-Chlorine**, water based cleaner such as Windex, 409. Mild detergent and ammonia based products are acceptable.
2. For removal of stains, the use of non-abrasive, non-scratching cleaners for Stainless Steel such as **Simichrome** is acceptable.
3. After cleaning, apply two coats of automobile paste wax such as **Turtle Wax T-222R** on all Stainless Steel surfaces.
4. All cleaning, waxing, sealing products must be approved by CCRI in advance including submission of MSDS documents.

Vendor MUST confirm measurements.

1. There is approximately 227 linear feet of SS edge return system which consist of wrapped solid surface integrated with the grated return surface.
2. Includes approximately 22" wide x 227 linear feet of solid surface SS with (4) edge wraps.
3. Includes approximately 9" wide x 227 linear feet SS grated surface with no edge wrap.

END DOCUMENT

BID #7458193

SWIMMING POOL SERVICE – CCRI LINCOLN CAMPUS

PRE-BID CONFERENCE

11/1/12

QUESTIONS AND CLARIFICATIONS

- 1) ARE FILTER SYSTEMS BEING CHANGED?

ONLY MEDIA IS BEING CHANGED, NOT FILTER SYSTEMS.

- 2) CAN CCRI CONFIRM IF BOARD OF HEALTH IS REQUIRED TO SAMPLE POOL WATER?

SEE #7 BELOW

- 3) VENDOR IS RESPONSIBLE FOR PERMIT ISSUED BY STATE BUILDING COMMISSIONER FOR PLUMING INSPECTION. – (question) DO YOU NEED A LICENSED PLUMBER FOR VALVE WORK OR ANY RELATED WORK ON PROJECT?

NO, A LICENSED PLUMBER IS NOT REQUIRED.

- 4) IS THERE A GROUND WATER PROBLEM?

WATER TABLE IS HIGH IN AREA.

- 5) WILL VENDOR BE TANKING IN WATER TO RE-FILL POOL OR WILL POOL BE FILLED USING INTERNAL FILLING SYSTEM?

INTERNAL SYSTEM

- 6) IS THERE ANY EXTRA TILE(S) TO MATCH FOR REPAIR WORK?

NO.

- 7) VENDOR IS REQUIRED TO OBTAIN PERMITS FORM THE RI DEPARTMEN5T OF HEALTH. TO REQUEST RI DEPARTMENT OF HEALTH TO TEST/SAMPLE WATER STAMPED PLANS MAY BE REQUIRED AND THAT WILL CAUSE DELAY OF PROJECT?

CCRI REQUESTS THAT ALL WATER IS TESTED PRIOR TO OPENING POOL TO GENERAL PUBLIC. CCRI WILL

CONFIRM IF BOARD OF HEALTH IS REQUIRED TO CHECK/TEST OR INSPECT POOL PRIOR TO OPENING TO GENERAL PUBLIC.

- 8) BID IS REQUESTING RE-GROUTING (BURNING OF GROUT) OF POOL, ACID WASH AND REPAIR. IS DECK TO BE RE-GROUTED/ (BURNED OUT) ALSO?

DESK AND COOPING ARE TO BE ACID WASHES AND CLEANED. NOT A TOTAL RE-GROUT. DECK AREA IS TO BE REPAIRED TO THOSE TITLED AREA NEEDED.

- 9) REGARDING PHASE II OF BID SPECIFICATIONS. DOES CCRI WANT TO RE-GROUT ENTIRE POOL AREA?

REVISION TO BID SPECIFICATIONS:

BID SPECIFICATIONS TO RE-GROUT ENTIRE POOL ARE BEING REMOVED.

NEW SPECIFICATIONS FOR POOL:

VENDOR IS TO RE-GROUT DAMAGED AREAS WITH IN POOL AND POOL AREA. ESTIMATED SQUARE FOOTAGE WILL BE ADDED TO BID. (Note change on revised bid form for line item #2) VENDOR TO PROVIDE A PRICE PER SQUARE FOOT FOR GROUT REPAIRS AND PRICE UNIT PRICE FOR ANY ADDITIONAL AMOUNTS IF REQUIRED.

- 10) DOES LOGO ON WALLS GET REPAINTED?

NO. PAINT OVER (COVER) LOGO.

- 11) IS DUCT WORK TO BE PAINTED AND ARE WALLS TO BE PAINTED TO CEILING?

YES.

- 12) REGARDING BLEACHED DECK AREA. PRIOR TO PAINTING IS THE DECK AREA TO BE BROUGHT DOWN TO CEMENT?

YES.

- 13) IS BENCH'S ON POOL DESK INCLUDED AS PART OF PAINTING BLEACHES?

YES.

14) WILL CCRI REMOVE WIRE(S) ALONG WALL PRIOR TO VENDOR PAINTING.

YES.

15) PAINT SPECIFICATION WILL BE PROVIDED WITHIN ADDENDUM. SPECIFICATION IS "AS EQUAL".

SEE ATTACHED

16) IS PAINTING BEHIND THE BLEACHES REQUIRED?

NO. BLEACHES TO FOLD IN/OUT. CCRI IS REQUIRING VENDOR TO INSPECT FLOOR AFTER FOLDING IN BLEACHERS AND PAINT IF NEEDED. BLEACHER DECK AREA IS PART OF BID TO BE PAINTED.

17) ARE OFFICES INCLUDED TO BE PAINTED?

YES, OFFICES ARE TO BE PAINTED. CHANGING ROOMS ARE NOT TO BE PAINTED.

NOTICE TO VENDORS:

REGARDING QUESTION ASKED IF ALL LINE ITEMS LISTED ON BID MUST BE BID.

THE STATE, AT ITS SOLE DISCRETION, RESERVES THE RIGHT TO MAKE ONE OR MULTIPLE AWARDS FOR THIS REQUIREMENT AND/OR TO REJECT ANY OR ALL BID. ANY VENDOR SUBMITTING A BID PROPOSAL MUST BID ALL LINE ITEMS. THE NARRATIVE WITHIN ADDENDUM #1 IS THE OFFICIAL ANSWER.



**SHERWIN
WILLIAMS.**

SCHEDULE

Exterior Finishes

Concrete floor

Coat 1: B67A02000 - ArmorSeal® 1000 HS Epoxy (Part A) Deck Gray

Coat 1: B67A02000 - ArmorSeal® 1000 HS Epoxy (Part A) Deck Gray

Note: floor must be brought to bare concrete with a profile consistent with 100 grit sandpaper.

Slip-Resistant : 50.055005 - H&C® Sharkgrip® Slip Resistant Additive 16 Oz.

Concrete walls

Coat 1: K46W00151 - Pro Industrial PreCatalyzed Waterbased Semi-Gloss Epoxy Extra White

Coat 2: K46W00151 - Pro Industrial PreCatalyzed Waterbased Semi-Gloss Epoxy Extra White

END OF SECTION

Data Pages



ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL® 1000 HS

PART A
PART B

B67-2000
B67V2002

SERIES
HARDENER

PRODUCT INFORMATION

Revised 2/12

8.22

PRODUCT DESCRIPTION

ARMORSEAL 1000 HS is a high solids, heavy duty, two-component, catalyzed, polyamide epoxy coating formulated for demanding marine and industrial requirements. Dries rapidly to a tough, high gloss finish with excellent resistance to alkalies, abrasion, corrosion, and chemical attack.

- Chemical Resistant
- Impact Resistant
- Abrasion Resistant
- Outstanding application properties

PRODUCT CHARACTERISTICS

Finish:	Gloss
Color:	Clear, Haze Gray, Deck Gray, White, Sandstone, Tile Red, Safety Yellow, and a wide range of tinted colors
Volume Solids, mixed:	colors - 65% ± 2% may vary by color clear - 61% ± 2%
Weight Solids, mixed:	74% ± 2%, may vary by color
VOC (EPA Method 24), mixed, may vary by color:	Unreduced: <340 g/L; 2.8 lb/gal clear <400 g/L; 3.33 lb/gal
Mix Ratio:	1:1 by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	5.0 (125)	8.0 (200)
Dry mils (microns)	3.0 (75)	5.0 (125)
~Coverage sq ft/gal (m ² /L)	206 (5.0)	350 (8.6)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1040 (25.5)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 6.0 mils (150 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 120°F/49°C
To touch:	4 hours	2 hours	30 minutes
To recoat:			
minimum:	24 hours	8 hours	4 hours
maximum:	7 days	7 days	7 days
Foot traffic:	48 hours	24 hours	12 hours
Heavy traffic:	4-5 days	48-72 hours	24-36 hours
To cure:	10 days	7 days	4 days
If maximum recoat time is exceeded, abrade surface before topcoating. Drying time is temperature, humidity, and film thickness dependent.			
Pot Life:	6 hours	4 hours	2 hours
Sweat-in-Time:	2 hours	30 minutes	10 minutes

Shelf Life:	36 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
Flash Point:	>105°F (41°C), Seta, mixed
Reducer/Clean Up:	Reducer #54, R7K54

RECOMMENDED USES

- For industrial, commercial, or marine applications where a heavy duty epoxy coating is required.
- Superior resistance to chemicals, moisture, abrasion, and impact
- Meets ADA requirements for slip resistance for floors
- Excellent resistance to alkalies, dilute acids, spillage of solvents, chemicals, jet fuel, grease, etc.
- Clear finish for interior use only
- Suitable for use in USDA inspected facilities

PERFORMANCE CHARACTERISTICS

Substrate*: Concrete

Surface Preparation*: Clean, dry, sound

System Tested*:

1 ct. ArmorSeal 1000 HS (reduced)

1 ct. ArmorSeal 1000 HS @ 3.0-5.0 mils (75-125 microns) dft
*unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 Kg load	64.8 mg loss
Adhesion, over concrete	ASTM D4541	350 psi, 100% concrete failure
Direct Impact Resistance (steel)	ASTM D2794	58 in. lbs
Dry Heat Resistance	ASTM D2485	180°F (82°C)
Flexibility (steel)	ASTM D522, 180° bend, 1/8" mandrel	Passes
Pencil Hardness	ASTM D3363	HB
Slip Resistance, Floors	ASTM C1028-96, .60 minimum Static Coefficient of Friction	Passes wet and dry, with and without SharkGrip Additive

Epoxy coatings may darken or yellow following application and curing.



ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL® 1000 HS

PART A
PART B

B67-2000
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SERIES
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PRODUCT INFORMATION

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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
Concrete/Wood:			
1 ct.	ArmorSeal 1000 HS	2.5-4.0	(63-100)
	(reduced as necessary up to 1 pt/gal with R7K54)*		
1-2 cts.	ArmorSeal 1000 HS	3.0-5.0	(75-125)
	(with anti-slip aggregate if required)		
Concrete:			
1 ct.	ArmorSeal 33 Epoxy Primer/Sealer	8.0	(200)
1-2 cts.	ArmorSeal 1000 HS	3.0-5.0	(75-125)
	(with anti-slip aggregate if required)		
Steel:			
1 ct.	Recoatable Epoxy Primer	4.0-5.0	(100-125)
1-2 cts.	ArmorSeal 1000 HS	3.0-5.0	(75-125)
Painted Surfaces in Sound Condition:			
1-2 cts.	ArmorSeal 1000 HS	3.0-5.0	(75-125)

*Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

The systems listed above are representative of the product's use, other systems may be appropriate.

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.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

* Iron & Steel: SSPC-SP6/NACE 3
Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3
Wood, interior: Clean, smooth, dust free

*Primer Required

Surface Preparation Standards

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

TINTING

White and Ultradeep may be tinted with Maxitoner Colorants at 200% tinting strength into Part A. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

APPLICATION CONDITIONS

Temperature: 50°F (10°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

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:
Part A: 1 gallon (3.78L) containers
Part B: 1 gallon (3.78L) containers
(clear available in 5 gallon /18.9L containers)

Weight: 12.51 ± 0.2 lb/gal ; 1.5 Kg/L
mixed, may vary by color

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.

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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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.



ArmorSeal
Heavy
Duty Floor
Coatings

ARMORSEAL® 1000 HS

PART A
PART B

B67-2000
B67V2002

SERIES
HARDENER

Revised 2/12

APPLICATION BULLETIN

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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.

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.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3. 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:

- 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. 310.2 Concrete Surface Preparation.

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 abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product 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.

Surface Preparation Standards

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

APPLICATION CONDITIONS

Temperature: 50°F (10°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

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 Reducer #54, R7K54

Airless Spray

Pressure.....2500 psi
Hose.....3/8" ID
Tip015" - .021"
Filter60 mesh
Reduction.....As needed up to 10% by volume

Brush

Nylon/Polyester or Natural Bristle
Reduction.....As needed up to 10% by volume

Roller

Cover3/8" woven with solvent resistant core
Reduction.....As needed up to 10% by volume

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



ArmorSeal
Heavy
Duty Floor
Coatings

ARMORSEAL® 1000 HS

PART A
PART B

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HARDENER

APPLICATION BULLETIN

8.22

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with low speed power agitation. Combine one Part A with one Part B by volume and mix for 3 minutes and until uniform. Allow the material to sweat-in as indicated. Re-stir before using.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	5.0 (125)	8.0 (200)
Dry mils (microns)	3.0 (75)	5.0 (125)
~Coverage sq ft/gal (m ² /L)	206 (5.0)	350 (8.6)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1040 (25.5)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 6.0 mils (150 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 120°F/49°C
To touch:	4 hours	2 hours	30 minutes
To recoat:			
minimum:	24 hours	8 hours	4 hours
maximum:	7 days	7 days	7 days
Foot traffic:	48 hours	24 hours	12 hours
Heavy traffic:	4-5 days	48-72 hours	24-36 hours
To cure:	10 days	7 days	4 days

*If maximum recoat time is exceeded, abrade surface before topcoating.
Drying time is temperature, humidity, and film thickness dependent.*

Pot Life:	6 hours	4 hours	2 hours
Sweat-in-Time:	2 hours	30 minutes	10 minutes

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

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer #54, R7K54. Clean tools immediately after use with Reducer #54, R7K54. Follow manufacturer's safety recommendations when using any solvent.

DISCLAIMER

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PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

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.

No reduction of material is recommended as it can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #54, R7K54

Material can not be sprayed if anti-slip aggregate is use.

Anti-slip additives, such as H&C SharkGrip®, may be added to the coating to provide some slip resistance. This product should not be used in place of a non-skid finish.

Anti-slip additive may be mixed into the final coat just prior to application. Exception: if anti-slip is desired with Clear finish, it should be hand broadcast.

Prime coat for concrete may be reduced up to 1 pint per gallon.

Clear is for interior use only.

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

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

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WARRANTY

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111.32

H&C®

SHARKGRIP

SLIP RESISTANT ADDITIVE

<u>CHARACTERISTICS</u>	<u>CHARACTERISTICS</u>	<u>CAUTION</u>												
<p>H&C® SharkGrip Slip-Resistant Additive is a micronized polymer for addition to H&C coatings for slip resistance, fine texturing, and gloss reduction. Due to its low oil absorption and high solvent resistance, it will stir easily into most oil-based and latex-based paints and other coatings with minimal effect on the coating's viscosity. Its low density allows it to stay well suspended in thin materials such as stains.</p> <p>Features:</p> <ul style="list-style-type: none"> • Can be added to paints, stains, and sealers • Add to latex-based, oil-based and epoxy coatings • Spherical-shaped particles allow easy cleaning of the surface • Spherical-shaped particles provide a smoother feel under foot when used on pool decks and patios <p>Benefits:</p> <ul style="list-style-type: none"> • slip resistance • easy addition into paints and stains • good chemical and abrasion resistance • good universal compatibility without viscosity effects 	<p>Melting Point (ASTM D-127): 330-335F Particle Size: 160-180 microns</p> <p><u>CAUTION</u></p> <p>Limitations: H&C® SharkGrip Slip-Resistant Additive will increase the coefficient of friction on the surface of a paint, but due to its small particle size, the coating that this is added to should be considered slip-resistant but not non-skid.</p> <p><u>ORDERING INFORMATION</u></p> <table border="0"> <tr> <td colspan="2">Part Number</td> </tr> <tr> <td>3.2oz</td> <td>50.055004</td> </tr> <tr> <td>16oz</td> <td>50.055005</td> </tr> <tr> <td colspan="2">SMIS</td> </tr> <tr> <td>3.2oz</td> <td>107-8732</td> </tr> <tr> <td>16oz</td> <td>107-8740</td> </tr> </table>	Part Number		3.2oz	50.055004	16oz	50.055005	SMIS		3.2oz	107-8732	16oz	107-8740	<p>H&C™ SharkGrip® Slip-Resistant Additive is not hazardous and does not contain silica, but should be treated as a nuisance dust while incorporating it into its intended vehicle. It is recommended that when mixing into unfamiliar coatings, a small test batch and application be made.</p> <p>Not for use on wood stains.</p>
Part Number														
3.2oz	50.055004													
16oz	50.055005													
SMIS														
3.2oz	107-8732													
16oz	107-8740													



PRO INDUSTRIAL™

113.01

Pre-Catalyzed Waterbased Epoxy

As of 08/06/2012, Complies with:
 OTC Yes LEED® 09 CI Yes
 SCAQMD No LEED® 09 NC Yes
 CARB Yes LEED® 09 CS Yes
 NGBS Yes LEED® 09 S No
 MPI # Eg-Shel-139,151;Semi-Gloss - 141,153

K45-150Series
 K46-150 Series

Eg-Shel
 Semi-Gloss

CHARACTERISTICS

Pro Industrial Pre-Catalyzed Water-based Epoxies are revolutionary, single-component pre-catalyzed waterborne acrylic epoxies that offers the adhesion, durability and resistance to stains and most cleaning solvents usually characteristic of two-component waterborne acrylic epoxy products.

These products are low in VOC, have a very mild odor, and can be applied over a wide variety of primers on properly prepared interior metal, wood, masonry, plaster and dry-wall.

- Interior institutional/commercial high maintenance areas
- Upgrade surfaces painted with conventional coatings with a high performance protection system with excellent adhesion
- Corrosion and Chemical resistant
- Hospitals and Schools
- Institutional dining and kitchen areas
- Suitable for use in USDA inspected facilities

Color: most colors
Recommended Spread Rate per coat:
 4.0 mils wet; 1.5 mils dry
 350 - 400 sq ft/gal

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Time @ 4.0 mils wet 50% RH:
 temperature and humidity dependent

Touch: 1 hour
 Recoat: 8 hours

Drying time is temperature, humidity, and film thickness dependent.

Finish:
 Eg-Shel 20 - 30 units @ 85°
 Semi-Gloss 55 - 65 units @ 60°

Flash Point: N/A
Shelf Life: 36 months, unopened
 Store indoors at 40°F to 100°F.

Tinting with CCE or BAC:
Use SherCOLOR Formulation System
K45W00151

VOC (less exempt solvents):
 141 g/L; 1.18 lb/gal

Volume Solids: 37 ± 2%
Weight Solids: 51 ± 2%
Weight per Gallon: 10.7 lb ± 0.2 lb

RECOMMENDED SYSTEMS

Block

- 1 ct. Loxon Block Surfacer
- 2 cts. Pro Industrial Pre-Catalyzed Epoxy

Drywall

- 1 ct. ProMar 200 Zero VOC Primer
- 2 cts. Pro Industrial Pre-Catalyzed Epoxy

Masonry

- 1 ct. Loxon Masonry Primer
- 2 cts. Pro Industrial Pre-Catalyzed Epoxy

Steel, Aluminum, Galvanized

- 1 ct. Pro Industrial Pro-Cryl Universal Primer
- 2 cts. Pro Industrial Pre-Catalyzed Epoxy

Wood

- 1 ct. Premium Wall and Wood Primer
- 2 cts. Pro Industrial Pre-Catalyzed Epoxy

System Tested:

Substrate: Steel
 Surface Preparation: SSPC-SP6
 Primer: 1 ct. DTM Acrylic Primer
 Finish: 1 ct. Pro Industrial Pre-Catalyzed Epoxy Eg-Shel

Adhesion

ASTM D 3359 5B
 100% Adhesion for light colors; Darker colors require longer cure time for same level of adhesion

Pencil Hardness

ASTM D 3363 2B

Scrub Resistance

ASTM D 2486 500 - 600 cycles

Block Resistance

Lab Assessment Excellent

with Stiff Bristle Brush and Pumice Scrub Media

Chemical Resistance

ASTM D 1308 Rating:
 Excellent Resistance •
 Limited Resistance x

Stain Resistance

ASTM D 3023 Rating:
 Excellent Resistance •
 Limited Resistance x

Distilled Water
 (Hot and at Room Temperature) •
 Ethyl Alcohol •
 Vinegar (3% acetic acid) •
 Alkali (10% Sodium Hydroxide) •
 Acid (10% Sulfuric Acid) •
 Soap (10% Fantastik®) •
 50/50 Xylene/Mineral Spirits •

Mustard •
 Grape Juice •
 Red Crayon x
 Lipstick, Red •
 Permanent Ink x
 Coffee •
 10% Sodium Hydroxide (alkali) •
 Acetic Acid •

PRO INDUSTRIAL™ PRE-CATALYZED WATERBASED EPOXY



SHERWIN-WILLIAMS.

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Remove all surface contamination including mildew by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Seal stains from water, smoke, ink, pencil, grease, etc. with an appropriate primer/sealer.

Iron & Steel - Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance.

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1.

Galvanizing - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

Concrete and Masonry - For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI 03732, CSP 1-3. Surfaces should be thoroughly cleaned and dry. Surface temperatures must be at least 55°F before filling. If required for a smoother finish, use the recommended filler/surfacer. The filler/surfacer must be thoroughly dry before topcoating per manufacturer's recommendations.

Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations.

Drywall - Fill cracks and holes with patching paste/spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust.

Wood - Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth.

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 abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

APPLICATION

Temperature: 50°F minimum
120°F maximum
(Air, surface, and material)
At least 5°F above dew point
Relative humidity: 85% maximum

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 compatible with the existing environmental and application conditions.

Airless Spray

Pressure..... 1800 - 2700 psi
Hose..... 1/4" ID
Tip..... .015" - .021"
Filter 60 mesh
Reduction..... Not recommended

Brush Nylon / polyester
Reduction..... Not recommended

Roller 1/4 - 1/2" woven
Reduction..... Not recommended

If specific application equipment is listed above, equivalent equipment may be substituted.

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using mineral spirits.

CAUTION

Not for use on surfaces continuously wet or under water, such as bath tubs, sinks, showers, or countertops.

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 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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Material Safety Data Sheets

MATERIAL SAFETY DATA SHEET

B67A2000
09 00

DATE OF PREPARATION
Oct 29, 2012

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

B67A2000

PRODUCT NAME

ARMORSEAL® 1000 HS Epoxy (Part A), Deck Gray

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 524-5979 www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
<small>*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)</small>	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	100-41-4	Ethylbenzene		
		ACGIH TLV	20 PPM	7.1 mm
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
13	1330-20-7	Xylene		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	64742-95-6	Light Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
6	100-51-6	Phenylmethanol		
		ACGIH TLV	Not Available	0.15 mm
		OSHA PEL	Not Available	
2	108-65-6	1-Methoxy-2-Propanol Acetate		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	
2	9046-10-0	Poly(oxypropylene)diamine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
2	140-31-8	n-Aminoethyl Piperazine		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
16	68410-23-1	Polyamide		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
7	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
0.3	1333-86-4	Carbon Black		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
 EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Causes burns.
SKIN: Causes burns.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
 Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:

- the liver
- the urinary system
- the hematopoietic (blood-forming) system
- the nervous system
- the reproductive system

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
 Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

HMIS Codes

Health	3*
Flammability	2
Reactivity	0

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

SKIN: Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.
 Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
105 °F PMCC	0.7	13.1	Combustible, Flash above 99 and below 200 °F

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
 Application to hot surfaces requires special precautions.
 During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
 Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.
 Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class II

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are **COMBUSTIBLE**. Keep away from heat and open flame.
 Consult NFPA Code. Use approved Bonding and Grounding procedures.
 Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.
 Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes or on skin. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	11.08 lb/gal	1327 g/l
SPECIFIC GRAVITY	1.33	
BOILING POINT	277 - 405 °F	136 - 207 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	41%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	Not Available	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
	3.14 lb/gal	376 g/l
	3.14 lb/gal	376 g/l
		Less Water and Federally Exempt Solvents
		Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT LD50 RAT	4HR	Not Available 3500 mg/kg
1330-20-7	Xylene	LC50 RAT LD50 RAT	4HR	5000 ppm 4300 mg/kg
64742-95-6	Light Aromatic Hydrocarbons	LC50 RAT LD50 RAT	4HR	Not Available Not Available
100-51-6	Phenylmethanol	LC50 RAT LD50 RAT	4HR	Not Available Not Available
108-65-6	1-Methoxy-2-Propanol Acetate	LC50 RAT LD50 RAT	4HR	Not Available 8500 mg/kg
9046-10-0	Poly(oxypropylene)diamine	LC50 RAT LD50 RAT	4HR	Not Available Not Available
140-31-8	n-Aminoethyl Piperazine	LC50 RAT LD50 RAT	4HR	Not Available 2140 mg/kg
68410-23-1	Polyamide	LC50 RAT LD50 RAT	4HR	Not Available Not Available
13463-67-7	Titanium Dioxide	LC50 RAT LD50 RAT	4HR	Not Available Not Available
1333-86-4	Carbon Black	LC50 RAT LD50 RAT	4HR	Not Available Not Available

SECTION 12 — ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION**

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS**WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Butyl benzyl phthalate 100 lb RQ

Ethylbenzene 1000 lb RQ

Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)),

(ERG#128)

Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

IMO

5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity.

UN1263, PAINT, CLASS 3, PG III, (41 C c.c.), EmS F-E, S-E, ADR (D/E)
IATA/CAO
UN1263, PAINT, 3, PG III

SECTION 15 — REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	13	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

50.05500-
01 00

DATE OF PREPARATION
May 3, 2011

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

50.05500-

PRODUCT NAME

H&C® Shark Grip

MANUFACTURER'S NAME

H&C CONCRETE STAINS
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients in this product are hazardous as defined by the Department of Labor.

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

EYE or SKIN contact with product.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

HMIS Codes

Health	1
Flammability	0
Reactivity	0

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT

Not Applicable

LEL

N.A.

UEL

N.A.

FLAMMABILITY CLASSIFICATION

Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Required for long or repeated contact.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.48 lb/gal	896 g/l
SPECIFIC GRAVITY	0.90	
BOILING POINT	Not Applicable	
MELTING POINT	Not Available	
VOLATILE VOLUME	0%	
EVAPORATION RATE	N.A.	
VAPOR DENSITY	N.A.	
SOLUBILITY IN WATER	N.A.	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
	0.00 lb/gal	0 g/l
	0.00 lb/gal	0 g/l
		Less Water and Federally Exempt Solvents
		Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION**CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

No LC50 or LD50 data available.

SECTION 12 — ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION**

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

Information is not Available

Canada (TDG)

Information is not Available

IMO

Information is not Available

IATA/ICAO

Information is not Available

SECTION 15 — REGULATORY INFORMATION**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

K46W151
11 00

DATE OF PREPARATION
Oct 29, 2012

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

K46W151

PRODUCT NAME

PRO INDUSTRIAL™ Pre-Catalyzed Waterbased Semi-Gloss Epoxy, Extra White

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 524-5979 www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
<small>*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)</small>	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	111-77-3	2-(2-Methoxyethoxy)-ethanol		
		ACGIH TLV	Not Available	1 mm
		OSHA PEL	Not Available	
2	29911-28-2	1-(2-Butoxymethylethoxy)-propanol		
		ACGIH TLV	Not Available	0.06 mm
		OSHA PEL	Not Available	
0.1	14464-46-1	Cristobalite		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.05 mg/m3 as Resp. Dust	
22	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

HMIS Codes

Health	2*
Flammability	0
Reactivity	0

SECTION 4 — FIRST AID MEASURES

- EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
 Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Applicable	Applicable	EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
 During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
 Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.
 Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE**STORAGE CATEGORY**

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.
 Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.
 Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
 Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
 When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	10.31 lb/gal	1235 g/l
SPECIFIC GRAVITY	1.24	
BOILING POINT	212 - 449 °F	100 - 231 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	63%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	Not Available	
pH	9.5	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

1.21 lb/gal	145 g/l	Less Water and Federally Exempt Solvents
0.52 lb/gal	63 g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY**STABILITY — Stable**
CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION**CHRONIC HEALTH HAZARDS**

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
111-77-3	2-(2-Methoxyethoxy)-ethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		5500 mg/kg
29911-28-2	1-(2-Butoxymethylethoxy)-propanol	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14464-46-1	Cristobalite	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION**

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

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US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

IATA/ICAO

Not Regulated for Transportation.

SECTION 15 — REGULATORY INFORMATION**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
	Glycol Ethers	2	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.