# **ARMORSEAL®** REXTHANE™ I FLOOR COATING

B65-60 SERIES

Revised: July 23, 2013

ArmorSeal

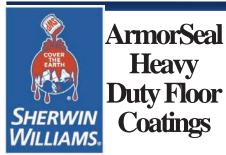
Heavy Duty Floor Coatings

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## **PRODUCT INFORMATION**

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Product Description				Recommended Uses		
<ul> <li>ARMORSEAL REXTHANE I FLOOR COATING is a high solids, single component, aliphatic, moisture cure urethane, low VOC, industrial floor coating. This urethane coating cures to a high gloss and chemical resistant film equivalent to two-part urethane coatings.</li> <li>Impact and abrasion resistant</li> <li>Chemical resistant</li> <li>Resists yellowing</li> <li>Low VOC</li> <li>Fast "hardness" development</li> <li>Outstanding application properties</li> </ul>				<ul> <li>For industrial, commercial, or marine applications where a heavy- duty polyurethane floor finish is required</li> <li>Excellent resistance to alkalies, dilute acids, spillage of solvents,</li> </ul>		
Pr	корист <b>С</b> н	ARACTERISTIC	s	Perfo	RMANCE CHARACT	ERISTICS
Finish:	Glos	s				
Color: Volume Solids: (calculated)	Gray of co 67%	r, White, Haze Gi , Sandstone, and lors possible ± 2%, White vary by color	ray, Deck I a wide range	Substrate*: Concrete Surface Preparation*: SSPC-SP13/NACE 6 System Tested*: 1 ct: ArmorSeal 1000 HS Clear @ 5.0 mils (125 microns) c 1 ct: ArmorSeal Rexthane I @ 2.0 mils (50 microns) dft *unless otherwise noted below		ls (125 microns) dft
Weight Solids:	81%	± 2%, may vary	by color			
VOC (EPA Metho	d 24): Unre	duced: <300	g/L; 2.5 lb/gal	Test Name	Test Method	Results
VOC (EPA Method 24): Unreduced: <300 g/L; 2.5 lb/gal Reduced 10%: 340 g/L; 2.8 lb/gal Recommended Spreading Rate per coat:				Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	116 mg loss
Wet mils (micro	ns)	Minimum 3.0 (75)	Maximum 4.5 (112)	Adhesion	ASTM D4541	350 psi, 100% concrete failure
Dry mils (micror ~Coverage sq f	t/gal (m²/L)	<ul><li><b>2.0</b> (50)</li><li><b>358</b> (8.8)</li></ul>	<b>3.0</b> (75) <b>537</b> (13.1)	Hot Tire Pick-up	ITM P213.00 @ 140°F (60°C)	Passes
Theoretical coverage <b>sq ft/gal</b> (m <sup>2</sup> /L) @ 1 mil / 25 microns dft NOTE: Brush or roll application achieve maximum film thickness a		<b>1072</b> (26.3) on may require muss and uniformity of	Iltiple coats to of appearance.	Moisture Condensation Resistance	ASTM D4585, 100°F (38°C), 1000 hours	Rating 10 per ASTM D714 for blistering
		-		Pencil Hardness	ASTM D3363	Н
Drying Scn To touch:	@ 40°F/4.5°C 4 hours	<u>) mils wet (75 r</u> @ 77°F/25°C 50% RH 2 hours	<u>microns):</u> @ 100°F/38°C 30 minutes	Slip Resistance, Floors	ASTM C1028, .60 Minimum Static Coefficient of Friction	Passes wet and dry with and without SharkGrip Additive
To recoat: minimum: maximum: Foot Traffic: Heavy Traffic: To cure: Drying time is tem	48 hours 14 days 48 hours 7 days 7 days perature, humi	9 hours 14 days 24 hours 3 days 3 days dity, and film thickr	3 hours 14 days 12 hours 3 days 3 days pess dependent.		sh, and spillage of milc ic hydrocarbon solvent 308).	
Shelf Life:		12 months, uno	pened 40°F (4.5°C) to inted colors must be			
Flash Point: Reducer/Clean	Up:	111°F (43°C) PI Aromatic 100, F				



Application Bulletin.

ARMORSEAL<sup>®</sup> REXTHANE<sup>™</sup> I FLOOR COATING

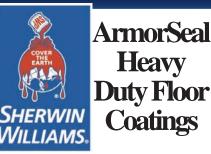
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Recommended Systems			SURFACE PREPARATION		
		ckness / ct. (Microns)	Surface must be clean, dr	y, and in sound condition. Remove all oil, ust, and other foreign material to ensure	
1 ct. ArmorSeal 1000 HS, reduced 10% 1-2 cts. ArmorSeal Rexthane I	6 1.5-2.0 2.0-3.0			on Bulletin for detailed surface prepara-	
Concrete: 1 ct. ArmorSeal FloorPlex 7100 Primer 1-2 cts. ArmorSeal Rexthane I Concrete-smooth: 2 cts. ArmorSeal Rexthane I Steel with Zinc Metalizing: 1 ct. ArmorSeal Rexthane I Clear, mist with R7K100. Allow to flash for 20 1 ct. ArmorSeal Rexthane I Clear	2.0-3.0 2.0-3.0 coat, redu minutes.	(50-75) (50-75)	Wood: Steel with Zinc Metalizing:	BS7079:A1         SIS055900         SSPC         NACE           Sa 3         Sa 3         Sp 5         1           Sa 2.5         Sp 10         2         2           Sa 2         Sa 2.5         SP 10         2           Sa 2         Sa 2.5         SP 10         2           Sa 1         Sa 1         SP 7         4           C St 2         C St 2         SP 2         -           sted         D St 2         D St 2         SP 2         -	
(Reduced 10% with R7K100)				Tinting	
Wood: 1-2 cts. ArmorSeal Rexthane I	2.0-3.0	(50-75)	Tint bases use Maxitoner of be used within seven (7)	colorants, only at 100% tint strength must	
<b>-</b>	6.1	1 4	Applic	ATION CONDITIONS	
The systems listed above are representative other systems may be appropriate.	ve of the pr	oduct's use,	Temperature: air and surface material: Relative humidity:	20°F (7°C) minimum, 100°F (38°C) maximum 40°F (4.5°C) minimum Do not apply over surface ice 30% minimum, 99% maximum	
			Refer to product Application	Bulletin for detailed application information.	
			Ordel	RING INFORMATION	
			Packaging: All colors: Haze Gray and Clear: Weight:	1 gallon (3.78L) containers 1 gallon (3.78L) and 5 gallon (18.9L) containers 12.09 ± 0.2 lb/gal ; 1.45 Kg/L (may vary with color)	
			SAFE	TY <b>P</b> RECAUTIONS	
			Refer to the MSDS sheet before	e use.	
				astructions are subject to change without notice. representative for additional technical data and	
				WARRANTY	
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CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



# ARMORSEAL<sup>®</sup> REXTHANE<sup>™</sup> I FLOOR COATING

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# **APPLICATION BULLETIN**

8.51

## 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.

#### **Concrete and Masonry**

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-2. 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 products 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.

#### **Steel with Zinc Metalizing:**

Surface must be clean, dry and sound. Follow the recommended system from the Product Information Sheet.

#### Wood

Surface must be clean, dry and sound. Remove any oils and dirt from the surface using a degreasing solvent or strong detergent. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile.

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
Commercial Blast Brush-Off Blast	Dueted	Sa 2 Sa 1 C St 2	Sa 2 Sa 1	SP 6 SP 7 SP 2	3
Hand Tool Cleaning	Rusted Pitted & Rusted	D St 2	C St 2 D St 2	ŠP 2	-
Power Tool Cleaning	Rusted Pitted & Rusted	C St 3 D St 3	C St 3 D St 3	SP 3 SP 3	-

### Application Conditions

Temperature: air and surface

material:

20°F (7°C) minimum, 100°F (38°C) maximum 40°F (4.5°C) minimum Do not apply over surface ice

Relative humidity: 30% minimum, 99% 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 .....Aromatic 100, R2K5, or R7K65

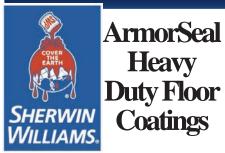
#### Brush

Brush.....Natural Bristle Reduction.....As needed, up to 10% by volume

#### Roller

Cover	Mohair roller
Reduction	As needed, up to 10% by volume with
	R7K65

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



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8.51

Application Procedures	Performance Tips
Surface preparation must be completed as indicated. <b>Mixing Instructions:</b> Mix paint thoroughly with low speed power agitation prior to use.	of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive
Apply paint at the recommended film thickness and spreading rate as indicated below:	
Recommended Spreading Rate per coat:	Excessive reduction of material can affect film build, appearance, and adhesion.
Minimum Maximum	
Wet mils (microns)         3.0 (75)         4.5 (112)           Dry mils (microns)         2.0 (50)         3.0 (75)           ~Coverage sq ft/gal (m²/L)         358 (8.8)         537 (13.1)	Anti-slip additives, such as H&C SharkGrip <sup>®</sup> , may be added to the coating to provide some slip resistance. This product should not be used in place of a non-skid finish.
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft1072(26.3)	Urethane floor coatings may exhibit tire tracking.
NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.           Drying Schedule @ 3.0 mils wet (75 microns):	Pour a small amount of Aromatic 100, R2K5 over the top of the paint in the can to prevent skinning or gelling.
@ 40°F/4.5°C @ 77°F/25°C @ 100°F/38°C	Place a temporary cover over the pail to keep excessive moisture,
50% RH	condensation, fog, or rain from contaminating the coating.
To touch: 4 hours 2 hours 30 minutes To recoat:	Tinted colors must be used within seven (7) days after tinting
minimum: 48 hours 9 hours 3 hours	
maximum:14 days14 days14 daysFoot Traffic:48 hours24 hours12 hours	It is recommended that partially used cans not be sealed/closed for use at a later date.
Heavy Traffic:7 days3 days3 daysTo cure:7 days3 days3 daysDrying time is temperature, humidity, and film thickness dependent.	Anti-slip additives, such as H&C SharkGrip <sup>®</sup> , may be added to the coating to provide some slip resistance. This product should not be used in place of a non-skid finish.
Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating	Do not shake beyond two minutes.
performance.	Can be used as a metalizing sealer. Consult Technical Bulletin - Sealers for Thermal Spray Metalizing, or your local Sherwin- Williams representative.
	Refer to Product Information sheet for additional performance characteristics and properties.
	SAFETY PRECAUTIONS
CLEAN UP INSTRUCTIONS	Refer to the MSDS sheet before use.
Clean spills and spatters immediately with Aromatic 100, R2K5. Clean tools immediately after use with Aromatic 100, R2K5. Follow manufacturer's safety recommendations when using any solvent.	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.
	WARRANTY
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