



# ArmorSeal Heavy Duty Floor Coatings

# ARMORSEAL® REXTHANE™ I FLOOR COATING

B65-60 SERIES

Revised 9/09

## PRODUCT INFORMATION

8.51

### PRODUCT DESCRIPTION

**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.

- Impact and abrasion resistant
- Chemical resistant
- Resists yellowing
- Low VOC
- Fast "hardness" development
- Outstanding application properties

### PRODUCT CHARACTERISTICS

|                                       |  |
|---------------------------------------|--|
| <b>Finish:</b>                        | Gloss  |
| <b>Color:</b>                         | Clear, White, Haze Gray, Deck Gray, Sandstone, and a wide range of colors possible |
| <b>Volume Solids:</b><br>(calculated) | 67% ± 2%, White may vary by color  |
| <b>Weight Solids:</b>                 | 81% ± 2%, may vary by color  |
| <b>VOC (EPA Method 24):</b>           | Unreduced: <300 g/L; 2.5 lb/gal<br>Reduced 10%: 340 g/L; 2.8 lb/gal                |

### Recommended Spreading Rate per coat:

|  | Minimum          | Maximum         |
|--|------------------|-----------------|
| <b>Wet mils</b> (microns)  | <b>3.0</b> 75    | <b>4.5</b> 112  |
| <b>Dry mils</b> (microns)  | <b>2.0</b> 50    | <b>3.0</b> 75   |
| <b>~Coverage sq ft/gal</b> (m <sup>2</sup> /L)                                     | <b>358</b> 8.8   | <b>537</b> 13.1 |
| Theoretical coverage <b>sq ft/gal</b> (m <sup>2</sup> /L) @ 1 mil / 25 microns dft | <b>1072</b> 26.3 |                 |

*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):

|                       | @ 40°F/4.5°C | @ 77°F/25°C<br>50% RH | @ 100°F/38°C |
|-----------------------|--------------|-----------------------|--------------|
| <b>To touch:</b>      | 4 hours      | 2 hours               | 30 minutes   |
| <b>To recoat:</b>     |              |                       |              |
| <b>minimum:</b>       | 48 hours     | 9 hours               | 3 hours      |
| <b>maximum:</b>       | 14 days      | 14 days               | 14 days      |
| <b>Foot Traffic:</b>  | 48 hours     | 24 hours              | 12 hours     |
| <b>Heavy Traffic:</b> | 7 days       | 3 days                | 3 days       |
| <b>To cure:</b>       | 7 days       | 3 days                | 3 days       |

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

|                          |   |
|--------------------------|---|
| <b>Shelf Life:</b>       | 12 months, unopened<br>Store indoors at 40°F (4.5°C) to 100°F (38°C) - Tinted colors must be used within 7 (seven) days after tinting |
| <b>Flash Point:</b>      | 111°F (43°C) PMCC   |
| <b>Reducer/Clean Up:</b> | Aromatic 100, R2K5  |

### RECOMMENDED USES

- For industrial, commercial, or marine applications where a heavy-duty polyurethane floor finish is required
- Excellent resistance to alkalis, dilute acids, spillage of solvents, chemicals, jet fuel, grease, etc.
- Formulated specifically for brush and roller application
- Urethane floor coatings may exhibit tire tracking.
- Meets ADA requirements for slip resistance for floors
- Suitable for use in USDA inspected facilities
- Interior or exterior use
- Schools
- Laboratories
- Clean rooms
- Graffiti resistant
- Airport hangers
- Pharmaceutical Houses
- Resists Skydrol

### PERFORMANCE CHARACTERISTICS

**Substrate\*:** Concrete

**Surface Preparation\*:** SSPC-SP13/NACE 6

**System Tested\*:**

1 ct: ArmorSeal 1000 HS Clear @ 5.0 mils (125 microns) dft

1 ct: ArmorSeal REXthane I @ 2.0 mils (50 microns) dft

\*unless otherwise noted below

| Test Name                               | Test Method   | Results   |
|---|---|---|
| <b>Abrasion Resistance</b>              | ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load            | 116 mg loss   |
| <b>Adhesion</b>                         | ASTM D4541  | 350 psi, 100% concrete failure                          |
| <b>Hot Tire Pick-up</b>                 | ITM P213.00 @ 140°F (60°C)                                | Passes  |
| <b>Moisture Condensation Resistance</b> | ASTM D4585, 100°F (38°C), 1000 hours                      | Rating 10 per ASTM D714 for blistering                  |
| <b>Pencil Hardness</b>                  | ASTM D3363  | H   |
| <b>Slip Resistance, Floors</b>          | ASTM C1028-96, .60 Minimum Static Coefficient of Friction | Passes wet and dry, with and without SharkGrip Additive |

Resists fumes, splash, and spillage of mild acids, alkalis, salts, aliphatic and aromatic hydrocarbon solvents, lubricating oils, and Skydrol. (ASTM D1308).



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### RECOMMENDED SYSTEMS

|                                    |  | Dry Film Thickness / ct. |           |
|------------------------------------|--|--------------------------|-----------|
|                                    |  | Mils                     | (Microns) |
| <b>Concrete:</b>                   |  |                          |           |
| 1 ct.                              | ArmorSeal 1000 HS, reduced 10%   | 1.5-2.0                  | (40-50)   |
| 1-2 cts.                           | ArmorSeal Rexthane I   | 2.0-3.0                  | (50-75)   |
| <b>Concrete:</b>                   |  |                          |           |
| 1 ct.                              | ArmorSeal FloorPlex 7100 Primer  | 1.5-2.0                  | (40-50)   |
| 1-2 cts.                           | ArmorSeal Rexthane I   | 2.0-3.0                  | (50-75)   |
| <b>Concrete-smooth:</b>            |  |                          |           |
| 2 cts.                             | ArmorSeal Rexthane I   | 2.0-3.0                  | (50-75)   |
| <b>Steel with Zinc Metalizing:</b> |  |                          |           |
| 1 ct.                              | ArmorSeal Rexthane I Clear, mist coat, reduced 30% with R7K100. Allow to flash for 20 minutes. |                          |           |
| 1 ct.                              | ArmorSeal Rexthane I Clear (Reduced 10% with R7K100)   | 2.0-3.0                  | (50-75)   |
| <b>Wood:</b>                       |  |                          |           |
| 1-2 cts.                           | ArmorSeal Rexthane I   | 2.0-3.0                  | (50-75)   |

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:

Concrete: SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3

Wood: Clean, dry, sound, smooth

Steel with Zinc Metalizing: Clean, dry, sound (clear coat only)

#### 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

Tint bases use Maxitoner colorants, only at 100% tint strength must be used within seven (7) days after tinting

### APPLICATION CONDITIONS

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

Relative humidity: 30% minimum, 99% maximum

Refer to product Application Bulletin for detailed application information.

### ORDERING INFORMATION

Packaging:  
All colors: 1 gallon (3.78L) containers  
Haze Gray and Clear: 1 gallon (3.78L) and 5 gallon (18.9L) containers

Weight: 12.09 ± 0.2 lb/gal ; 1.45 Kg/L (may vary with 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

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## 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.

#### Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, 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.

#### 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.

#### 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          | 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    |
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| 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  | -    |

### APPLICATION CONDITIONS

Temperature:  
air and surface 20°F (7°C) minimum, 100°F (38°C) maximum  
material: 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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### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

**Mixing Instructions:** Mix paint thoroughly with low speed power agitation prior to use.

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

#### Recommended Spreading Rate per coat:

|  | Minimum          | Maximum         |
|--|------------------|-----------------|
| <b>Wet mils</b> (microns)  | <b>3.0</b> 75    | <b>4.5</b> 112  |
| <b>Dry mils</b> (microns)  | <b>2.0</b> 50    | <b>3.0</b> 75   |
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*NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.*

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| <b>minimum:</b>       | 48 hours     | 9 hours               | 3 hours      |
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| <b>Heavy Traffic:</b> | 7 days       | 3 days                | 3 days       |
| <b>To cure:</b>       | 7 days       | 3 days                | 3 days       |

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

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 Aromatic 100, R2K5. Clean tools immediately after use with Aromatic 100, R2K5. Follow manufacturer's safety recommendations when using any solvent.

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### PERFORMANCE TIPS

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.

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.

Urethane floor coatings may exhibit tire tracking.

Pour a small amount of Aromatic 100, R2K5 over the top of the paint in the can to prevent skinning or gelling.

Place a temporary cover over the pail to keep excessive moisture, condensation, fog, or rain from contaminating the coating.

Tinted colors must be used within seven (7) days after tinting

It is recommended that partially used cans not be sealed/closed for use at a later date.

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.

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

### SAFETY PRECAUTIONS

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### WARRANTY

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