

ArmorSeal Heavy Duty **Floor Coatings**

ARMORSEĂ ARMOR-PLEX™

WATERBASED URETHANE FINISH

B65-750 PART A SERIES Part B B65V750 **H**ARDENER

PRODUCT INFORMATION

Revised 8/05

PRODUCT DESCRIPTION

- · Low odor
- Nonflammable
- · Water cleanup
- · Performance comparable to high quality, solvent-borne, urethane floor finishes

- RECOMMENDED USES · For industrial, commercial, or marine use where a heavy duty, water based, polyurethane floor finish is required
- For use over concrete and wood floor surfaces in:

Hospitals Clean Rooms Boiler Rooms Helipads Walkways Aisle Striping

Assembly and Production Areas Food processing facilities

Aircraft hangers

- Urethane floor coatings may exhibit tire tracking
- Meets ADA requirements for slip resistance for floors

Performance Characteristics

Suitable for use in USDA inspected facilities

PRODUCT CHARACTERISTICS

Finish: High Gloss

White, Haze Gray, Deck Gray, Sandstone, Tile Red, Clear Color:

Volume Solids: 58% ± 2% (mixed) Weight Solids: 61% ± 2% (mixed)

VOC (EPA Method 24): Unreduced: <50 g/L; 0.41 lb/gal

(mixed)

@ 100°F

Mix Ratio: 3:1

Recommended Spreading Rate per coat:

Wet mils: 3.5 - 5.0 2.0 - 3.0 Dry mils:

309 - 464 sq ft/gal approximate Coverage:

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

Drying Schedule @ 4.0 mils wet @ 50% RH: @ 55°F @ 77°F

1-1/2 hours To touch: 4 hours 1 hour To recoat: 28 hours minimum 6 hours 3 hours 14 days 14 days maximum 7 days Foot Traffic 48 hours 16 hours 8 hours Heavy Traffic: 3-4 days 48 hours 24 hours 2 hours 30 minutes Pot Life: 2 hours If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity and film thickness dependent.

Sweat-in-time: None required

Shelf Life: 12 months, unopened

Store indoors at 40°F to 100°F.

Flash Point: >230°F PMCC (mixed)

Reducer: Water,

10% minimum reduction required

Clean Up: Water

System Tested: (unless otherwise indicated)

Substrate: Concrete Surface Preparation: Clean, dry, sound

1 ct. ArmorSeal Floor-Plex 7100 Primer @ 2.0 mils dft ArmorSeal Armor-Plex WB Urethane @ 2.5 mils dft 1 ct.:

Abrasion Resistance:

Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load

Result: 45 mg loss

Adhesion:

Method: **ASTM D4541**

Result: 350 psi, 100% Concrete Failure

Coefficient of Friction: **ASTM D4518** Method:

Result: .90 with SharkGrip® Additive

Direct Impact Resistance: Method: ASTM G14

160 in lb (1/8" steel substrate) Result:

Dry Heat Resistance: ASTM D2485 Method: 200°F

Flexibility:

Result:

ASTM D522, 180° bend, 1/8" mandrel Method:

Result: Hot Tire Pick-Up: Method: ITM @ 140°F Result: **Passes** Pencil Hardness:

Method: ASTM D3363 Result: 2H

Slip Resistance, Floors:

ASTM C1028-96, .60 minimum Static Coefficient Method:

of Friction

Result: Passes wet and dry, with and without SharkGrip

Additive

8.50 ArmorSeal continued on back



ArmorSeal Heavy Duty Floor **Coatings**

Sherwin-Williams representative to obtain the most recent Product Data Infor-

mation and Application Bulletin.

ARMORSEĂL® ARMOR-PLEX™ WATERBASED URETHANE FINISH

B65-750 Part A SERIES Part B B65V750 **H**ARDENER

ANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR

IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUD-ING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

PRODUCT INFORMATION RECOMMENDED SYSTEMS SURFACE PREPARATION Concrete/Wood: Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material ArmorSeal Floor-Plex 7100 Primer 1 ct. to ensure good adhesion. @ 1.5 - 2.0 mils dft 2 cts. ArmorSeal Armor-Plex WB Urethane Refer to product Application Bulletin for detailed surface prepa-@ 2.0 - 3.0 mils dft/ct ration information. Concrete/Wood: Do not use hydrocarbon solvents for cleaning. ArmorSeal WB Epoxy Primer/Sealer 1 ct. Minimum recommended surface preparation: @ 5.0 - 7.0 mils dft SSPC-SP13/NACE 6, or ICRI Concrete & Masonry: ArmorSeal Armor-Plex WB Urethane 2 cts. 03732, CSP 1-3 @ 2.0 - 3.0 mils dft/ct Wood: Clean, smooth, dust free Concrete/Wood: * Requires primer ArmorSeal 33 Epoxy Primer/Sealer 1 ct. @ 8.0 mils dft TINTING 2 cts. ArmorSeal Armor-Plex WB Urethane Tint Extra White with part A EnviroToners only. Use the 150% @ 2.0 - 3.0 mils dft/ct tint strength formula pages. **APPLICATION CONDITIONS** Temperature: 55°F minimum, 120°F maximum (air, surface, and material) At least 5°F above dew point Relative humidity: 85% maximum Refer to product Application Bulletin for detailed application information. ORDERING INFORMATION Packaging: 1 and 4 gallon premeasured components (color Specific) $10.6 \pm 0.2 \text{ lb (mixed)}$ Weight per gallon: (may vary with color) SAFETY PRECAUTIONS Refer to the MSDS sheet before use. Published technical data and instructions are subject to The systems listed above are representative of the product's change without notice. Contact your Sherwin-Williams repreuse. Other systems may be appropriate. sentative for additional technical data and instructions. WARRANTY DISCLAIMER The Sherwin-Williams Company warrants our products to be free of manufactur-The information and recommendations set forth in this Product Data Sheet are ing defects in accord with applicable Sherwin-Williams quality control procedures. based upon tests conducted by or on behalf of The Sherwin-Williams Company. Liability for products proven defective, if any, is limited to replacement of the Such information and recommendations set forth herein are subject to change defective product or the refund of the purchase price paid for the defective and pertain to the product offered at the time of publication. Consult your product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUAR-



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 PART A
 B65-750
 SERIES

 PART B
 B65V750
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APPLICATION BULLETIN

Revised 8/05

SURFACE PREPARATION	APPLICA	TION CONDITIONS
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. Do not use hydrocarbon solvents for cleaning.	Temperature:	55°F minimum, 120°F maximum (air, surface, and material) At least 5°F above dew point
Poured Concrete New For surface propagation, refer to SSPC SP13/NACE 6, or ICPL	Relative humidity:	85% maximum

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3. Surfaces must be clean, dry, sound and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 8.0 and 10.0. Allow to dry thoroughly prior to coating. Primer is required.

Old

Surface preparation is done in much the same manner as new concrete, however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, ArmorSeal 5020 Floor Resurfacer is recommended to patch and resurface damaged concrete. Fill all cracks, voids and bugholes with ArmorSeal Crack Filler. Primer is required.

Always follow the industry standards 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-SP13/NACE 6 Surface Preparation of Concrete.
ICRI 03732 Concrete Surface Preparation

Wood

Surface must be clean, dry and sound. Prime with recommended primer and paint as soon as possible. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped or burned, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked. 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.

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.

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 Water, 10% minimum reduction

required, up to 25% maximum

Brush

Brush Nylon/Polyester

Roller

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

ArmorSeal 8.50A continued on back



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APPLICATION BULLETIN

@ 100°F

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix Component "A" thoroughly by boxing and stirring before use. Make certain no pigment remains on the bottom of the can. Then combine 3 parts by volume of Part A with 1 part by volume of Part B. Mix thoroughly. Reduce 10% minimum by volume with water (required) AFTER both components have been mixed together. Maximum reduction is 25%.

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

Recommended Spreading Rate per coat:

Wet mils: 3.5 - 5.0 2.0 - 3.0Dry mils:

309 - 464 sq ft/gal approximate Coverage:

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

Drying Schedule @ 4.0 mils wet @ 50% RH: @ 77°F

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To recoat				
minimum:	28 hours	6 hours	3 hours	
maximum:	14 days	14 days	7 days	
Foot Traffic	48 hours	16 hours	8 hours	
Heavy Traffic:	3-4 days	48 hours	24 hours	
Pot Life:	2 hours	2 hours	30 minute	
If maximum recoat time is exceeded, abrade surface before recoating.				
Drying time is temperature, humidity and film thickness dependent.				

Sweat-in-time: None required

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

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.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

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

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.

Do not apply directly to concrete surfaces, a primer is required.

Do not use hydrocarbon solvents for cleaning.

Urethane floor coatings may exhibit tire tracking

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.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with water. Clean tools immediately after use with water. Follow manufacturer's safety recommendations when using any solvent.

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.

DISCLAIMER

WARRANTY

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.

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