

ArmorSeal Heavy Duty Floor Coatings

8.12 ARMORSEAL[®] TREAD-PLEX[™]

100% ACRYLIC WATER BASED FLOOR COATING

B90 SERIES

PRODUCT INFORMATION Revised 11/06						
PRODUCT DESCRIPTION				RECOMMENDED USES		
ARMORSEAL TREAD-PLEX is a general purpose, interior/ exterior, VOC compliant, 100% acrylic, low odor, waterborne floor coating. This dries rapidly to a tough, alkali resistant fin- ish which will withstand hard wear, abrasion, grease, oils, and cleaning equipment.				 For use over prepared concrete and wood floors, steps, stairwells, aisleways, or previously painted floor surfaces in sound condition. Laboratories 		
 One component Fast dry Slip resistant properties Abrasion resistant 				 Light assembly and production areas Hospitals Industrial/commercial office areas Helipads Not recommended for areas subject to hot tire pickup Meets ADA requirements for Slip Resistance for floors Suitable for use in USDA inspected facilities 		
P RODUCT CHARACTERISTICS				Performance Characteristics		
Finish:	Sei	mi-Gloss		System Tested: (unless otherwise indicated)		
Color:	Wie	de variety of c	olors available	Surface Preparation: Clean, dry, sound		
Volume Solids:	439	% ± 2%, may	vary by color	Abrasion Resistance: Method: ASTM D4060, CS10 wheel 1000 cycles 1 kg load		
Weight Solids:	559	% ± 2%, may	vary by color	Result: No more than 37 mg loss		
VOC (EPA Metho	od 24): <10	00 g/L; .83 lb/	gal	Method: ASTM D4541 Result: 702 psi		
Recommended Wet mils: Dry mils: Coverage: Apply by brush o Drying Schedule To touch: To recoat: Foot traffic: Heavy traffic: To cure: Drying time is temp Shelf Life: Flash Point: Reducer/Clean	Spreading R 3.5 1.5 345 or roller only. e @ 4.0 mils @55°F 45 minutes 6 hours 18 hours 24 hours 7 days berature, humidit 24 Sto >20 Up: Wa	ate per coat: - 4.5 - 2.0 5 - 460 sq ft/ga wet @ 50% R @ 77°F 30 minutes 4 hours 8 hours 18 hours 7 days y, and film thick months, unop re indoors at 00°F PMCC ter	Al approximately H: @100°F 10 minutes 30 minutes 1 hour 6 hours 7 days ness dependent. bened 40°F to 100°F.	Result: 5A Direct Impact Resistance, on steel: Method: ASTM D2794 Result: 30 in. lb. Dry Heat Resistance: Method: ASTM D2485 Result: 150°F, intermittent 200°F Flexibility: Method: ASTM D522, 180° bend, 1/8" mandrel Result: Passes Humidity Resistance: Method: ASTM D522, 180° bend, 1/8" mandrel Result: Passes Humidity Resistance: Method: ASTM D4585, 500 hours Result: Rating 10 per ASTM D714 for blistering Pencil Hardness: Method: ASTM D3363 Result: F Scrub Resistance: (3 mils dft) Method: ASTM D2486, Section 8 Result: Passes 1000 cycles minimum Slip Resistance, Floors: Method: ASTM C1028-96, .60 minimum Static Coefficient of Friction Result: Passes wet and dry, with and without SharkGrip		
	-			Additive Wet Adhesion: (one coat @ 2.0 mils dft) Method: TT-P-1511A, 6000 cycles Result: Passes		



mation and Application Bulletin.

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

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PRODUCT INFORMATION RECOMMENDED SYSTEMS SURFACE PREPARATION Surface must be clean, dry, and in sound condition. Remove **Concrete Floors:** all oil, dust, grease, dirt, loose rust, and other foreign material ArmorSeal Tread-Plex @ 1.5 - 2.0 mils dft/ct 2 cts. to ensure adequate adhesion. **Concrete Floors:** Refer to product Application Bulletin for detailed surface prepa-1 ct. ArmorSeal Tread-Plex Primer @ 1.5 - 2.0 mils dft ration information. 1-2 cts. ArmorSeal Tread-Plex Finish @ 1.5 - 2.0 mils dft/ct Minimum recommended surface preparation: Concrete Floors: SSPC-SP13/NACE 6, or ICRI Wood Floors: ArmorSeal Tread-Plex @ 1.5 - 2.0 mils dft/ct 03732, CSP 1-3 2 cts. Wood Floors: Clean, smooth, dust free Wood Floors: Do not use hydrocarbon solvents for cleaning ArmorSeal Tread-Plex Primer @ 1.5 - 2.0 mils dft 1 ct. 1-2 cts. ArmorSeal Tread-Plex Finish @ 1.5 - 2.0 mils dft/ct TINTING Do not tint package colors. Pastel and Ultradeep bases tint at **Previously Painted Floors in Sound Condition:** 100% strength with EnviroToner or Blend-A-Color Toner. Bet-1-2 cts. ArmorSeal Tread-Plex @ 1.5 - 2.0 mils dft/ct ter performance will be achieved with Envirotoners. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color. **APPLICATION CONDITIONS** Temperature: 50°F minimum, 100°F maximum (air, surface, and material) At least 5°F above dew point 85% maximum Relative humidity: Refer to product Application Bulletin for detailed application information. **ORDERING** INFORMATION Packaging: 1 gallon and 5 gallon containers Weight per gallon: 10.7 ± 0.2 lb, 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 repre-The systems listed above are representative of the product's sentative for additional technical data and instructions. use. Other systems may be appropriate. 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-Sherwin-Williams representative to obtain the most recent Product Data Infor-ANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR



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APPLICATION BULLETIN Revised 11/06 SURFACE PREPARATION **APPLICATION CONDITIONS** Surface must be clean, dry, and in sound condition. Remove 50°F minimum, 100°F maximum Temperature: all oil, dust, grease, dirt, loose rust, and other foreign material (air, surface, and material) to ensure adequate adhesion. Do not use hydrocarbon sol-At least 5°F above dew point vent for cleaning. **Poured Concrete** Relative humidity: 85% maximum New 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 **APPLICATION EQUIPMENT** agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechani-Reducer/Clean Up Water cal scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 8.0 Brush and 11.0. Allow to dry thoroughly prior to coating. Brush Nylon/Polyester Old Surface preparation is done in much the same manner as Reduction As needed up to 6% by volume new concrete, however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by clean-Roller ing with a strong detergent. Refer to ASTM D4258. Form Cover 1/4"-3/8" woven with phenolic core release agents, hardeners, etc. must be removed by sand-Reduction As needed up to 6% by volume blasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unac-If specific application equipment is not listed above, equivaceptably rough surface, ArmorSeal 5020 Floor Resurfacer is lent equipment may be substituted. recommended to patch and resurface damaged concrete. Fill all cracks, voids and bugholes with ArmorSeal Crack Filler. 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 No primer required. 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. 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, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked. **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.



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APPLICATION BULLETIN

Application Procedures	Performance Tips
Surface preparation must be completed as indicated. Mixing Instructions: Mix paint thoroughly by boxing and stir- ring before use. Avoid vigorous agitation. Make certain no pigment remains on bottom of cap	During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours of curing.
Apply paint at the recommended film thickness and spreading rate as indicated below: Recommended Spreading Rate: Wet mils: 3.5 - 4.5 Dry mils: 1.5 - 2.0 Coverage: 345 - 460 sq ft/gal approximate Apply by brush or roller only. Drying Schedule @ 4.0 mils wet @ 50% RH:	Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, rough- ness or porosity of the surface, skill and technique of the appli- cator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic con- ditions, and excessive film build. Excessive reduction of material can affect film build, appear- ance, and adhesion. This product is not slip resistant where moisture, water, grease, or other liquids may be present
@55°F@ 77°F@100°FTo touch:45 minutes30 minutes10 minutesTo recoat:6 hours4 hours30 minutesFoot traffic:18 hours8 hours1 hourHeavy traffic:24 hours18 hours6 hoursTo cure:7 days7 days7 daysDrying time is temperature, humidity, and film thickness dependent.Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.	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	SAFETY PRECAUTIONS
Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with min- eral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using mineral spirits.	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 Infor- mation and Application Bulletin.	The Sherwin-Williams Company warrants our products to be free of manufactur- ing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUAR- 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.