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	ArmorSeal	
OVER THE SARTH	Heavy	TREAD-PLEX ™
	Duty Floor	100% ACRYLIC WATER BASED FLOOR COATING
RWIN LIAMS。	Coatings	B90 SERIES

Revised: August 12, 2019

PRODUCT INFORMATION

8.12

PRODUCT DESCRIPTION ARMORSEAL TREAD-PLEX is a general purpose, interior/exterior, 100% acrylic, low odor, waterborne floor coating. This dries rapidly to a tough, alkali resistant finish which will withstand hard wear, tion. abrasion, grease, oils, and cleaning equipment. Laboratories · One component · Light assembly and production areas · Water clean up Fast dry Hospitals Slip resistant properties Industrial/commercial office areas Abrasion resistant · Helipads Outstanding application properties · Not recommended for areas subject to hot tire pickup · Meets ADA requirements for Slip Resistance for floors · Suitable for use in USDA inspected facilities **PRODUCT CHARACTERISTICS Performance Characteristics** Finish: Semi-Gloss Substrate*: Concrete Surface Preparation*: Clean, dry, sound Color: Wide variety of colors available System Tested*: **Volume Solids:** 2 cts: ArmorSeal Tread-Plex @ 4.0 mils (100 microns) dft 43% ± 2%, may vary by color *unless otherwise noted below Weight Solids: 55% ± 2%, may vary by color VOC (EPA Method 24): <100 g/L; .83 lb/gal Recommended Spreading Rate per coat: Minimum Maximum Wet mils (microns) 3.5 (88) 4.5 (112) Dry mils (microns) 1.5 (40) **2.0** (50) ~Coverage sq ft/gal (m²/L) 345 (8.4) 460 (11.3) Theoretical coverage sq ft/gal 688 (16.8) (m²/L) @ 1 mil / 25 microns dft NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. Drying Schedule @ 4.0 mils wet (100 microns): @ 77°F/25°C @ 100°F/38°C @ 55°F/13°C 50% RH To touch: 45 minutes 30 minutes 10 minutes To recoat: 6 hours 4 hours 30 minutes Foot traffic: 18 hours 8 hours 1 hour Heavy traffic: 24 hours 18 hours 6 hours 7 days 7 days To cure: 7 days Drying time is temperature, humidity, and film thickness dependent. Shelf Life 24 months unonened

onen Ene.	Store indoors at 50°F (10°C) to 100°F (38°C)
Flash Point:	>200°F (93°C), PMCC
Reducer/Clean Up:	Water

Recommended Uses

For use over prepared concrete and wood floors, steps, stairwells, aisleways, or previously painted floor surfaces in sound condi-

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	No more than 37 mg loss
Adhesion	ASTM D4541; ASTM D3359	702 psi (ASTM D4541); 5A (ASTM D3359)
Direct Impact Resistance, on steel	ASTM D2794	30 in. lb.
Dry Heat Resistance	ASTM D2485	150°F (66°C), in- termittent at 200°F (93°C)
Flexibility	ASTM D522, 180° bend, 1/8" mandrel	Passes
Humidity Resistance	ASTM D4585, 500 hours	Rating 10 per ASTM D714 for blistering
Pencil Hardness	ASTM D3363	F
Scrub Resistance (3 mils dft)	ASTM D2486, Section 8	Passes 1000 cycles minimum
Slip Resistance, Floors	ASTM C1028**, .60 Minimum Static Coefficient of Fric- tion	Passes wet and dry, with and without SharkGrip Additive
Wet Adhesion (one coat @ 2.0 mils dft) **Test method withdray	TT-P-1511A, 6000 cycles	Passes

withdrawn in 2014 without replacement



Application Bulletin.

ARMORSEAL® Heavy Duty Floor Coatings TREAD-PLEXTM 100% ACRYLIC WATER BASED FLOOR COATING B90 Series

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8.12

Revised: August 12, 2019	PRC	DDUCT IN	FORMATION 8.12
Recommended Systems			SURFACE PREPARATION
Concrete Floors: 2 cts. ArmorSeal Tread-Plex	Dry Film <u>Mils</u> 1.5-2.0	Thickness / ct. (Microns) (40-50)	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.
Wood Floors:	1.5-2.0	(40-30)	Refer to product Application Bulletin for detailed surface prepara-
2 cts. ArmorSeal Tread-Plex	1.5-2.0	(40-50)	tion information. Minimum recommended surface preparation:
Previously Painted Floors in Sound 1-2 cts. ArmorSeal Tread-Plex	Condition 1.5-2.0		Concrete Floors: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3 Wood Floors: Clean, smooth, dust free Do not use hydrocarbon solvents for cleaning
The systems listed above are representative of the product's use, other systems may be appropriate.			Surface Preparation StandardsCondition of SurfaceISO 8501-1 BS7079:A1SSPCNACEWhite Metal Near White MetalSa 3SP 51Near White Metal Commercial BlastSa 2.5SP 102Commercial Blast Brush-Off BlastSa 1SP 74Hand Tool Cleaning Power Tool CleaningRusted Pitted & Rusted Pitted & RustedC St 2SP 2-Power Tool CleaningPitted & Rusted D St 3SP 3
			TINTING
			Do not tint package colors. Pastel and Ultradeep bases tint at 100% strength with EnviroToner, BAC, or CCE. Better 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 (10°C) minimum, 100°F (38°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point 85% maximum
			Refer to product Application Bulletin for detailed application information.
			ORDERING INFORMATION
			Packaging: 1 gallon (3.78L) and 5 gallon (18.9L) containers
			Weight: 10.7 ± 0.2 lb/gal ; 1.3 Kg/L, 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
Disclaime The information and recommendations set forth based upon tests conducted by or on behalf of Such information and recommendations set forth pertain to the product offered at the time of pub Williams representative to obtain the most rece Application Buildin	n in this Proc The Sherwin- herein are su blication. Co	Williams Company. bject to change and nsult your Sherwin-	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 defec- tive 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, EXPRESED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER- CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

SHERWIN Coatings	ARMORSEAL [®] TREAD-PLEX [™] LIC WATER BASED FLOOR COATING
Williams. Coaungs	B90 Series
Revised: August 12, 2019 APPLICATIO	N BULLETIN 8.12
Surface Preparations	Application 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.	Temperature:50°F (10°C) minimum, 100°F (38°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point
Do not use hydrocarbon solvent for cleaning.	Relative humidity: 85% maximum
Concrete and Masonry For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No.	Application Equipment
310.2R, 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.	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.
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. 310.2R Concrete Surface Preparation.	Reducer/Clean UpWater Brush BrushNylon/Polyester ReductionAs needed up to 6% by volume Roller Cover1/4"-3/8" woven with solvent resistant core
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 im- mediately 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.	ReductionAs needed up to 6% by volume If specific application equipment is not listed above, equivalent equipment may be substituted.
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 abrading 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. Surface Preparation Standards MACE White Metal Sa 2 SP 6 Near White Metal Sa 2 SP 6 Shout the sufface Surface Standards Sa 2 SP 6 Shout the sufface of the previous coating may be necessary. Retest surface to sound substrate and treat as a new surface as above. Surface Preparation Standards Sa 2.5 SP 6 </td <td></td>	



ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL® TREAD-PLEXTM 100% ACRYLIC WATER BASED FLOOR COATING

B90 SERIES

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APPLICATION BULLETIN

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APPLICATION PROCEDURES PERFORMANCE TIPS During the early stages of drying, the coating is sensitive to rain, Surface preparation must be completed as indicated. dew, high humidity, and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours Mixing Instructions: Mix paint thoroughly with low speed power of curing. agitation prior to use. Avoid vigorous agitation. Make certain no pigment remains on bottom of can. Spreading rates are calculated on volume solids and do not include Apply paint at the recommended film thickness and spreading rate as indicated below: 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 Recommended Spreading Rate per coat: mixing, spillage, overthinning, climatic conditions, and excessive film build. Minimum Maximum Wet mils (microns) 3.5 (88) 4.5 (112) Excessive reduction of material can affect film build, appearance, Dry mils (microns) **2.0** (50) 1.5 (40) and adhesion. ~Coverage sq ft/qal (m²/L) 345 (8.4) 460 (11.3) Theoretical coverage sq ft/gal 688 (16.8) (m²/L) @ 1 mil / 25 microns dft This product is not slip resistant where moisture, water, grease, or NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. other liquids may be present. Anti-slip additives, such as H&C SharkGrip®, may be added to the Drying Schedule @ 4.0 mils wet (100 microns): coating to provide some slip resistance. This product should not @ 77°F/25°C @ 55°F/13°C @ 100°F/38°C be used in place of a non-skid finish. 50% RH To touch: 45 minutes 30 minutes 10 minutes To recoat: 6 hours 4 hours 30 minutes Foot traffic: 18 hours 8 hours 1 hour 24 hours 6 hours Heavy traffic: 18 hours To cure: 7 days 7 days 7 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. Refer to Product Information sheet for additional performance characteristics and properties. SAFETY PRECAUTIONS Refer to the MSDS sheet before use. **CLEAN UP INSTRUCTIONS** Published technical data and instructions are subject to change without notice. Clean spills and spatters immediately with soap and warm water. Contact your Sherwin-Williams representative for additional technical data and Clean hands and tools immediately after use with soap and warm instructions. water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety WARRANTY recommendations when using mineral spirits.

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. 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 MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.