



ARMORSEAL® TREAD-PLEXTM

100% ACRYLIC WATER BASED FLOOR COATING

B90 SERIES

INDUSTRIAL & MARINE COATINGS

PRODUCT INFORMATION

Revised 1/02

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

PRODUCT DESCRIPTION

One component

cleaning equipment.

Water clean up

· Fast dry

- · Slip resistant properties
- Abrasion resistant
- Suitable for use in USDA inspected facilities.

RECOMMENDED USES

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

- Laboratories
- · 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

PRODUCT CHARACTERISTICS

Finish: Semi-Gloss

Color: Wide variety of colors available

Volume Solids: $43\% \pm 2\%$, may vary by color

Weight Solids: $55\% \pm 2\%$, may vary by color

VOC (EPA Method 24): 150 g/L; 1.25 lb/gal

Recommended Spreading Rate per coat:

Wet mils: 3.5 - 4.5 Dry mils: 1.5 - 2.0

Coverage: 345 - 460 sq ft/gal approximately

Apply by brush or roller only.

Drying Schedule @ 4.0 mils wet @ 50% RH:

@55°F @ 77°F @100°F 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, unopened, at 77°F

Flash Point: >200°F PMCC

Reducer/Clean Up: Water

Performance Characteristics

System Tested: (unless otherwise indicated)
Substrate: Concrete
Surface Preparation: Clean, dry, sound
2 cts. ArmorSeal Tread-Plex @ 4.0 mils dft

Abrasion Resistance:

Method: ASTM D4060, CS10 wheel, 1000 cycles, 1 kg load

Result: No more than 37 mg loss

Adhesion:

Method: ASTM D4541 Result: 702 psi Method: ASTM D3359

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 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

ArmorSeal 8.12 continued on back





ARMORSEAL® TREAD-PLEX™

100% ACRYLIC WATER BASED FLOOR COATING

000_00	2300000	B90 Series				
INDUSTRIAL & MARINE COATINGS	INDUSTRIAL PRODUCT INFORMATION					
RECOMMENDED SYSTEMS		Surface Preparation				
Concrete Floors: 2 cts. ArmorSeal Tread-Plex @ 1.5 - 2.0 mils dft/ct Concrete Floors: 1 ct. ArmorSeal Tread-Plex Primer @ 1.5 - 2.0 mils dft 1-2 cts. ArmorSeal Tread-Plex Finish @ 1.5 - 2.0 mils dft/ct		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.				
Wood Floors: 2 cts. ArmorSeal Tread-Plex @ 1.5 - 2.0 mils dft/ct Wood Floors: 1 ct. ArmorSeal Tread-Plex Primer @ 1.5 - 2.0 mils dft 1-2 cts. ArmorSeal Tread-Plex Finish @ 1.5 - 2.0 mils dft/ct		Minimum recommended surface preparation: Concrete Floors: SSPC-SP13/NACE 6 Wood Floors: Clean, smooth, dust free				
Previously Painted Floors in Sound Condition: 1-2 cts. ArmorSeal Tread-Plex @ 1.5 - 2.0 mils dft/ct		TINTING				
		Do not tint package colors. Pastel and Ultradeep bases tint at 100% strength with EnviroToner or Blend-A-Color Toner. Better performance will be achieved with Envirotoners. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.				
		APPLICATION CONDITIONS				

50°F minimum, 100°F maximum Temperature:

(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 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 representative for additional technical data and instructions.

The systems listed above are representative of the product's use. Other systems may be appropriate.







ARMORSEAL® TREAD-PLEX™

50°F minimum, 100°F maximum

(air, surface, and material) At least 5°F above dew point

100% ACRYLIC WATER BASED FLOOR COATING

B90 Series

APPLICATION BULLETIN

Temperature:

Relative humidity:

Revised 1/02

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.

Poured Concrete

& MARINE COATINGS

New

For surface preparation, refer to SSPC-SP13/NACE 6. 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 6.0 and 10.0. Allow to dry thoroughly prior to coating.

SURFACE PREPARATION

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. Always follow the ASTM 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 D4263 Plastic Sheet Method for Checking Moisture in

SSPC-SP 13/Nace 6 Surface Preparation of Concrete 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.

APPLICATION	EQUIPMENT

APPLICATION CONDITIONS

85% maximum

Reducer/Clean Up Water

Brush

Brush Nvlon/Polvester

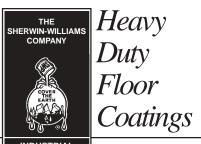
Reduction As needed up to 6% by volume

Roller

Cover 1/4"-3/8" woven with phenolic core Reduction As needed up to 6% by volume

If specific application equipment is listed above, equivalent equipment may be substituted.

ArmorSeal 8.12A continued on back



& MARINE COATINGS



ARMORSEAL® TREAD-PLEX™

100% ACRYLIC WATER BASED FLOOR COATING

B90 Series

APPLICATION BULLETIN

Application Procedures

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly by boxing and stirring before use. Avoid vigorous agitation. Make certain no pigment remains on bottom of can.

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:

	@55°F	@ 77°F	@100°F
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
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.

Performance Tips

During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. If possible, plan painting schedules to avoid these influences during the first 16-24 hours of curing.

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.

This product is not slip resistant where moisture, water, grease, or other liquids may be present.

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 soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using mineral spirits.

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.