



*Heavy
Duty
Floor
Coatings*

EnviroSpec™



ARMORSEAL® 8.13 FLOOR-PLEX® 7100

PART A
PART B

B70-400
B70V400

SERIES
HARDENER

PRODUCT INFORMATION

Revised 9/02

PRODUCT DESCRIPTION		RECOMMENDED USES																					
<p>ARMORSEAL FLOOR-PLEX 7100 is a high performance, interior, VOC compliant, low odor, two component, catalyzed, water borne, polyamide epoxy floor coating. This dries rapidly to an extra tough, gloss finish which will withstand heavy industrial traffic, abrasion, and general chemical attack. Provides overall chemical resistance comparable to that of most solvent borne epoxy systems.</p> <ul style="list-style-type: none"> Resists yellowing Water clean up Impact and abrasion resistant Suitable for use in USDA inspected facilities Chemical resistant Low odor 		<p>For use over prepared concrete floors or previously painted floors in sound condition.</p> <ul style="list-style-type: none"> Durable epoxy floor coating for general purpose use in industrial and commercial environments Schools Laboratories Clean rooms Meets ADA requirements for slip resistance for floors 																					
PRODUCT CHARACTERISTICS		PERFORMANCE CHARACTERISTICS																					
<p>Finish: Gloss</p> <p>Color: Haze Gray, Deck Gray, Tile Red, White and a wide range of tinted colors</p> <p>Volume Solids: 40% ± 2%, White, mixed may vary by color</p> <p>Weight Solids: 52% ± 2%, mixed, may vary by color</p> <p>VOC (EPA Method 24): 258 g/L; 2.15 lb/gal, mixed, may vary by color</p> <p>Mix Ratio: 1:1 by volume</p> <p>Recommended Spreading Rate per coat: Wet mils: 3.8 - 5.0 Dry mils: 1.5 - 2.0 Coverage: 320 - 427 sq ft/gal approximate</p> <p>Apply by brush or roller only.</p> <p>Drying Schedule @ 4.0 mils wet @ 50% RH:</p> <table border="1"> <thead> <tr> <th></th> <th>@ 50°</th> <th>@ 77°F</th> <th>@ 120°F</th> </tr> </thead> <tbody> <tr> <td>To touch:</td> <td>2 hours</td> <td>1 hour</td> <td>30 minutes</td> </tr> <tr> <td>To recoat*:</td> <td>12 hours</td> <td>8 hours</td> <td>4 hours</td> </tr> <tr> <td>Foot traffic:</td> <td>48 hours</td> <td>24 hours</td> <td>12 hours</td> </tr> <tr> <td>Heavy traffic:</td> <td>96 hours</td> <td>72 hours</td> <td>48 hours</td> </tr> </tbody> </table> <p>Pot Life: 8 hours 4 hours 1 hour Sweat-in-Time: 45 minutes 30 minutes 15 minutes</p> <p>*If recoating after 30 days, abrade surface first.</p> <p>Drying time is temperature, humidity, and film thickness dependent.</p> <p>Shelf Life: 12 months, unopened, at 77°F</p> <p>Flash Point: >230°F, Seta Flash, mixed</p> <p>Reducer/Clean Up: Water</p>			@ 50°	@ 77°F	@ 120°F	To touch:	2 hours	1 hour	30 minutes	To recoat*:	12 hours	8 hours	4 hours	Foot traffic:	48 hours	24 hours	12 hours	Heavy traffic:	96 hours	72 hours	48 hours	<p>System Tested: (unless otherwise indicated) Substrate: Concrete Surface Preparation: Clean, dry, sound 1 ct. ArmorSeal Floor-Plex 7100 Primer @ 2.0 mils dft 1 ct. ArmorSeal Floor-Plex 7100 Coating @ 2.0 mils dft</p> <p>Abrasion Resistance: Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load Result: 107 mg loss</p> <p>Adhesion: Method: ASTM D4541 Result: 941 psi, failure of block</p> <p>Direct Impact Resistance, on steel: Method: ASTM D2794 Result: 75 in. lb.</p> <p>Dry Heat Resistance: Method: ASTM D2485 Result: 200°F, intermittent 250°F</p> <p>Flame Spread Rating: Method: ASTM E84 Tunnel Test Result: Class A on noncombustible surfaces</p> <p>Flexibility: Method: ASTM D522, 180° bend, 1/8" mandrel, on steel Result: Passes</p> <p>Humidity Resistance: Method: ASTM D2287, 100°F, 1500 hours Result: No blistering, softening, or loss of adhesion Less than 5% gloss change</p> <p>Scrub Resistance: Method: Federal Test Method 141-6192 Result: 10,000 cycles</p> <p>Slip Resistance, Floors: Method: ASTM C1028-96, .60 minimum Static Coefficient of Friction Result: Passes wet and dry, with and without SharkGrip Additive</p>	
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ARMORSEAL[®] 8.13 FLOOR-PLEX[®] 7100

WATER BASED EPOXY FLOOR COATING

PART A B70-400 SERIES
PART B B70V400 HARDENER

PRODUCT INFORMATION

RECOMMENDED SYSTEMS

Concrete Floors, unpainted:

- 1 ct. ArmorSeal Floor-Plex 7100 Primer @ 1.5 - 2.0 mils dft
- 2 cts. ArmorSeal Floor-Plex 7100 Finish @ 1.5 - 2.0 mils dft/ct

Concrete Floors, unpainted:

- 1 ct. ArmorSeal Floor-Plex 7100 Finish (reduced with one pint of water per gallon)
- 2 cts. ArmorSeal Floor-Plex 7100 Finish @ 1.5 - 2.0 mils dft/ct

Concrete Floors, previously painted:

- 1 ct. Spot prime bare areas with 1 ct. ArmorSeal Floor-Plex 7100 Primer @ 1.5 - 2.0 mils dft
- 2 cts. ArmorSeal Floor-Plex 7100 Finish @ 1.5 - 2.0 mils dft/ct

Concrete:

- 1 ct. ArmorSeal Floor-Plex 7100 Primer @ 1.5 - 2.0 mils dft
- 2 cts. ArmorSeal Floor-Plex 7100 Finish @ 1.5 - 2.0 mils dft/ct

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.

Do not use hydrocarbon solvents for cleaning.

Minimum recommended surface preparation:
Concrete & Masonry: SSPC-SP13/NACE 6

TINTING

White may be tinted with EnviroToners at 150% strength, 6 oz per gallon maximum. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

APPLICATION CONDITIONS

Temperature: 50°F minimum, 120°F maximum (air, surface, and material)
At least 5°F above dew point

Relative humidity: 75% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

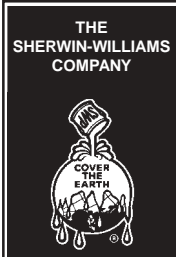
Packaging: 1 and 5 gallon containers

Weight per gallon: 9.9 ± 0.2 lb mixed, 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.



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WATER BASED EPOXY FLOOR COATING

**PART A
PART B**

**B70-400
B70V400**

**SERIES
HARDENER**

**8.13A
ARMORSEAL®
FLOOR-PLEX® 7100**

**INDUSTRIAL
& MARINE
COATINGS**

APPLICATION BULLETIN

Revised 9/02

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.

Do not use hydrocarbon solvents for cleaning.

**Poured Concrete
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.

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

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 CONDITIONS

Temperature: 50°F minimum, 120°F maximum (air, surface, and material)
At least 5°F above dew point

Relative humidity: 75% maximum

APPLICATION EQUIPMENT

Reducer/Clean Up Water

Brush

Brush Nylon/Polyester or Natural Bristle
Reduction as needed up to 12½% by volume, for primer coat only

Roller

Cover 1/4"-3/8" woven with phenolic core
Reduction as needed up to 12½% by volume, for primer coat only

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



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FLOOR-PLEX® 7100
WATER BASED EPOXY FLOOR COATING**

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APPLICATION BULLETIN

APPLICATION PROCEDURES	PERFORMANCE TIPS																				
<p>Surface preparation must be completed as indicated.</p> <p>Mix contents of each component thoroughly with power agitation. Make certain no pigment remains on the bottom of the can. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated. Re-stir before using.</p> <p>If reducer is used, add only after both components have been thoroughly mixed, after sweat-in.</p> <p>Apply paint at the recommended film thickness and spreading rate as indicated below:</p> <p>Recommended Spreading Rate per coat: Wet mils: 3.8 - 5.0 Dry mils: 1.5 - 2.0 Coverage: 320 - 427 sq ft/gal approximate</p> <p>Apply by brush or roller only.</p> <p>Drying Schedule @ 4.0 mils wet @ 50% RH:</p> <table border="0"> <tr> <td></td> <td>@ 50°</td> <td>@ 77°F</td> <td>@ 120°F</td> </tr> <tr> <td>To touch:</td> <td>2 hours</td> <td>1 hour</td> <td>30 minutes</td> </tr> <tr> <td>To recoat*:</td> <td>12 hours</td> <td>8 hours</td> <td>4 hours</td> </tr> <tr> <td>Foot traffic:</td> <td>48 hours</td> <td>24 hours</td> <td>12 hours</td> </tr> <tr> <td>Heavy traffic:</td> <td>96 hours</td> <td>72 hours</td> <td>48 hours</td> </tr> </table> <p>Pot Life: 8 hours 4 hours 1 hour Sweat-in-Time: 45 minutes 30 minutes 15 minutes</p> <p>*If recoating after 30 days, abrade surface first.</p> <p>Drying time is temperature, humidity, and film thickness dependent.</p> <p>Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.</p>		@ 50°	@ 77°F	@ 120°F	To touch:	2 hours	1 hour	30 minutes	To recoat*:	12 hours	8 hours	4 hours	Foot traffic:	48 hours	24 hours	12 hours	Heavy traffic:	96 hours	72 hours	48 hours	<p>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.</p> <p>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.</p> <p>Excessive reduction of material can affect film build, appearance, and adhesion.</p> <p>Do not apply the material beyond recommended pot life.</p> <p>Do not mix previously catalyzed material with new.</p> <p>Always test adhesion by applying a test patch of 2-3 square feet. allow to dry one week before checking adhesion.</p> <p>Do not use hydrocarbon solvents for cleaning.</p> <p>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.</p> <p>Refer to Product Information sheet for additional performance characteristics and properties.</p>
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CLEAN UP INSTRUCTIONS	SAFETY PRECAUTIONS																				
<p>Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water.</p>	<p>Refer to the MSDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>																				