



**ArmorSeal**  
**Heavy Duty**  
**Floor**  
**Coatings**

**WATER BASED EPOXY FLOOR COATING**

**PART A B70-400**  
**PART B B70V400**

**8.13**  
**ARMORSEAL®**  
**FLOOR-PLEX® 7100**  
**SERIES HARDENER**

**PRODUCT INFORMATION**

Revised 10/06

PRODUCT DESCRIPTION	RECOMMENDED USES																				
<p><b>ARMORSEAL FLOOR-PLEX 7100</b> is a heavy duty, 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"> <li>• Resists yellowing</li> <li>• Water clean up</li> <li>• Impact and abrasion resistant</li> <li>• Chemical resistant</li> <li>• Low odor</li> </ul>	<p>For use over prepared concrete floors or previously painted floors in sound condition.</p> <p>Durable epoxy floor coating for general purpose use in industrial and commercial environments, such as:</p> <ul style="list-style-type: none"> <li>• Schools</li> <li>• Laboratories</li> <li>• Clean rooms</li> <li>• Meets ADA requirements for slip resistance for floors.</li> <li>• Suitable for use in USDA inspected facilities</li> </ul>																				
PRODUCT CHARACTERISTICS	PERFORMANCE CHARACTERISTICS																				
<p><b>Finish:</b> Gloss</p> <p><b>Color:</b> Haze Gray, Deck Gray, Tile Red, White and a wide range of tinted colors</p> <p><b>Volume Solids:</b> 41% ± 2%, White, mixed may vary by color</p> <p><b>Weight Solids:</b> 51% ± 2%, mixed, may vary by color</p> <p><b>VOC (EPA Method 24):</b> &lt;250 g/L; 2.15 lb/gal, mixed, may vary by color</p> <p><b>Mix Ratio:</b> 1:1 by volume</p> <p><b>Recommended Spreading Rate per coat:</b>  Wet mils: 3.8 - 5.0  Dry mils: 1.5 - 2.0  Coverage: 328 - 437 sq ft/gal approximate  Apply by brush or roller only.</p> <p><b>Drying Schedule @ 4.0 mils wet @ 50% RH:</b></p> <table border="1" data-bbox="162 1449 812 1596"> <thead> <tr> <th></th> <th>@ 50°F</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>Drying time is temperature, humidity, and film thickness dependent. If recoating after 30 days, abrade surface first.</p> <p><b>Pot Life:</b> 8 hours 4 hours 1 hour</p> <p><b>Sweat-in-Time:</b> 45 minutes 30 minutes 15 minutes</p> <p><b>Shelf Life:</b> 12 months Store indoors at 40°F to 100°F</p> <p><b>Flash Point:</b> &gt;230°F, Seta Flash, mixed</p> <p><b>Reducer/Clean Up:</b> Water Clear tint base requires reduction of 5% by volume</p>		@ 50°F	@ 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><b>System Tested:</b> (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><b>Abrasion Resistance:</b>  Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load  Result: 107 mg loss</p> <p><b>Adhesion:</b>  Method: ASTM D4541  Result: 941 psi, failure of block</p> <p><b>Direct Impact Resistance, on steel:</b>  Method: ASTM D2794  Result: 75 in. lb.</p> <p><b>Dry Heat Resistance:</b>  Method: ASTM D2485  Result: 200°F, intermittent 250°F</p> <p><b>Flame Spread Rating:</b>  Method: ASTM E84 Tunnel Test  Result: Class A on noncombustible surfaces</p> <p><b>Flexibility:</b>  Method: ASTM D522, 180° bend, 1/8" mandrel, on steel  Result: Passes</p> <p><b>Hot Tire Pick-up:</b>  Method: ITM @ 140°F  Result: Passes</p> <p><b>Scrub Resistance:</b>  Method: Federal Test Method 141-6192  Result: 10,000 cycles</p> <p><b>Slip Resistance, Floors:</b>  Method: ASTM C1028-96, .60 minimum Static Coefficient of Friction  Result: Passes wet and dry, with and without SharkGrip Additive</p>
	@ 50°F	@ 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																		



**ArmorSeal**  
**Heavy Duty**  
**Floor**  
**Coatings**

8.13  
**ARMORSEAL®**  
**FLOOR-PLEX® 7100**  
**WATER BASED EPOXY FLOOR COATING**

PART A      B70-400      SERIES  
PART B      B70V400      HARDENER

**PRODUCT INFORMATION**

RECOMMENDED SYSTEMS	SURFACE PREPARATION
<p><b>Concrete Floors, unpainted:</b>  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</p> <p><b>Concrete Floors, unpainted:</b>  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</p> <p><b>Concrete Floors, previously painted:</b>  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</p> <p><b>Concrete:</b>  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</p>	<p>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.</p> <p>Refer to product Application Bulletin for detailed surface preparation information.</p> <p><b>Do not use hydrocarbon solvents for cleaning.</b></p> <p>Minimum recommended surface preparation:  Concrete &amp; Masonry: SSPC-SP13/NACE 6, or ICRI 03732, CSP1 -3</p>
	TINTING
	<p>Tint part A with EnviroToners at 150% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.</p>
	APPLICATION CONDITIONS
	<p>Temperature: 50°F minimum, 120°F maximum (air, surface, and material)  At least 5°F above dew point</p> <p>Relative humidity: 75% maximum</p> <p>Refer to product Application Bulletin for detailed application information.</p>
	ORDERING INFORMATION
	<p>Packaging: 1 and 5 gallon containers</p> <p>Weight per gallon: 9.9 ± 0.2 lb mixed, may vary by color</p>
	SAFETY PRECAUTIONS
	<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>
<p>The systems listed above are representative of the product's use. Other systems may be appropriate.</p>	

DISCLAIMER	WARRANTY
<p>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.</p>	<p>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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.</p>



**ArmorSeal**  
**Heavy Duty**  
**Floor**  
**Coatings**

**WATER BASED EPOXY FLOOR COATING**

**PART A**      **B70-400**  
**PART B**      **B70V400**

**8.13A**  
**ARMORSEAL®**  
**FLOOR-PLEX® 7100**  
**SERIES**  
**HARDENER**

**APPLICATION BULLETIN**

Revised 10/06

SURFACE PREPARATION	APPLICATION CONDITIONS
<p>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.</p> <p><b>Do not use hydrocarbon solvents for cleaning.</b></p> <p><b>Poured Concrete</b>  <b>New</b>            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 11.0. Allow to dry thoroughly prior to coating.</p> <p><b>Old</b>            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.</p> <p>Fill all cracks, voids and bugholes with ArmorSeal Crack Filler.</p> <p><b>Always follow the standard methods listed below:</b>            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</p> <p><b>Previously Painted Surfaces</b>            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.</p>	<p>Temperature:                    50°F minimum, 120°F maximum            (air, surface, and material)            At least 5°F above dew point</p> <p>Relative humidity:            75% maximum</p>
<b>APPLICATION EQUIPMENT</b>	
	<p><b>Reducer/Clean Up</b> ..... Water            Clear tint base requires reduction of 5% by volume</p> <p><b>Brush</b>            Brush ..... Nylon/Polyester or Natural Bristle            Reduction ..... as needed up to 12½% by volume, for primer coat only</p> <p><b>Roller</b>            Cover ..... 1/4"-3/8" woven with phenolic core            Reduction ..... as needed up to 12½% by volume, for primer coat only</p> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p>



**ArmorSeal**  
**Heavy Duty**  
**Floor**  
**Coatings**

8.13A  
**ARMORSEAL®**  
**FLOOR-PLEX® 7100**  
**WATER BASED EPOXY FLOOR COATING**

**PART A B70-400**  
**PART B B70V400**

**SERIES**  
**HARDENER**

## 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. Clear tint base requires reduction of 5% by volume.</p> <p>Apply paint at the recommended film thickness and spreading rate as indicated below:</p> <p><b>Recommended Spreading Rate per coat:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Wet mils:</td> <td style="width: 35%;">3.8 - 5.0</td> <td style="width: 35%;"></td> </tr> <tr> <td>Dry mils:</td> <td>1.5 - 2.0</td> <td></td> </tr> <tr> <td>Coverage:</td> <td colspan="2">328 - 437 sq ft/gal approximate</td> </tr> </table> <p>Apply by brush or roller only.</p> <p><b>Drying Schedule @ 4.0 mils wet @ 50% RH:</b></p> <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;"><b>@ 50°F</b></td> <td style="text-align: center;"><b>@ 77°F</b></td> <td style="text-align: center;"><b>@ 120°F</b></td> </tr> <tr> <td>To touch:</td> <td style="text-align: center;">2 hours</td> <td style="text-align: center;">1 hour</td> <td style="text-align: center;">30 minutes</td> </tr> <tr> <td>To recoat*:</td> <td style="text-align: center;">12 hours</td> <td style="text-align: center;">8 hours</td> <td style="text-align: center;">4 hours</td> </tr> <tr> <td>Foot traffic:</td> <td style="text-align: center;">48 hours</td> <td style="text-align: center;">24 hours</td> <td style="text-align: center;">12 hours</td> </tr> <tr> <td>Heavy traffic:</td> <td style="text-align: center;">96 hours</td> <td style="text-align: center;">72 hours</td> <td style="text-align: center;">48 hours</td> </tr> </table> <p>Drying time is temperature, humidity, and film thickness dependent. If recoating after 30 days, abrade surface first.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><b>Pot Life:</b></td> <td style="width: 35%; text-align: center;">8 hours</td> <td style="width: 35%; text-align: center;">4 hours</td> <td style="width: 35%; text-align: center;">1 hour</td> </tr> </table> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><b>Sweat-in-Time:</b></td> <td style="width: 35%; text-align: center;">45 minutes</td> <td style="width: 35%; text-align: center;">30 minutes</td> <td style="width: 35%; text-align: center;">15 minutes</td> </tr> </table> <p>Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.</p>	Wet mils:	3.8 - 5.0		Dry mils:	1.5 - 2.0		Coverage:	328 - 437 sq ft/gal approximate			<b>@ 50°F</b>	<b>@ 77°F</b>	<b>@ 120°F</b>	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	<b>Pot Life:</b>	8 hours	4 hours	1 hour	<b>Sweat-in-Time:</b>	45 minutes	30 minutes	15 minutes	<p>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.</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><b>Do not use hydrocarbon solvents for cleaning.</b></p> <p>Anti-slip additives, such as H&amp;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>
Wet mils:	3.8 - 5.0																																					
Dry mils:	1.5 - 2.0																																					
Coverage:	328 - 437 sq ft/gal approximate																																					
	<b>@ 50°F</b>	<b>@ 77°F</b>	<b>@ 120°F</b>																																			
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																																			
<b>Pot Life:</b>	8 hours	4 hours	1 hour																																			
<b>Sweat-in-Time:</b>	45 minutes	30 minutes	15 minutes																																			
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>																																					
DISCLAIMER	WARRANTY																																					
<p>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.</p>	<p>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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.</p>																																					