



AR-I900 Urethane Hybrid

PRODUCT INFORMATION

Revised 1/06

PRODUCT DESCRIPTION		RECOMMENDED USES																																	
AR-I900 Urethane Hybrid is a high sol-ids, single component, aliphatic, moisture cure urethane, VOC complying, moisture resistant industrial floor coating. This urethane coating cures to a high gloss and chemical resistant film equivalent to two-part urethane coatings. • Impact and abrasion resistant • Chemical resistant • Resists yellowing • VOC compliant • Fast "hardness" development		• For industrial, commercial, or marine applications where a heavy-duty polyurethane floor finish is required • Excellent resistance to alkalis, dilute acids, spillage of solvents, chemicals, jet fuel, grease, etc. • Formulated specifically for brush and roller application • Urethane floor coatings may exhibit tire tracking. • Meets ADA requirements for slip resistance for floors • Interior or exterior use • Schools • Laboratories • Clean rooms • Graffiti resistant • Suitable for use in USDA inspected facilities • Airport hangers • Pharmaceutical Houses • Resists Skydrol																																	
PRODUCT CHARACTERISTICS		PERFORMANCE CHARACTERISTICS																																	
Finish: Gloss Color: Safety Blue, Safety Green, Safety Yellow, Safety Red, Sapa Gray, Hydro White, and a wide range of colors possible Volume Solids: 67% ± 2%, White (calculated) may vary by color Weight Solids: 81% ± 2%, may vary by color VOC (EPA Method 24): Unreduced: <300 g/L; 2.5 lb/gal Reduced 10%: 340 g/L; 2.8 lb/gal Recommended Spreading Rate per coat: Wet mils: 3.0 - 4.5 Dry mils: 2.0 - 3.0 Coverage: 358 - 537 sq ft/gal approximate NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. Drying Schedule @ 3.0 mils wet @ 50% RH: <table> <tr> <th></th><th>@ 40°F</th><th>@ 77°F</th><th>@ 100°F</th></tr> <tr> <td>To touch:</td><td>4 hours</td><td>2 hours</td><td>30 minutes</td></tr> <tr> <td>To recoat</td><td></td><td></td><td></td></tr> <tr> <td> minimum:</td><td>48 hours</td><td>9 hours</td><td>3 hours</td></tr> <tr> <td> maximum:</td><td>14 days</td><td>14 days</td><td>14 days</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>7 days</td><td>3 days</td><td>3 days</td></tr> <tr> <td>To cure:</td><td>7 days</td><td>3 days</td><td>3 days</td></tr> </table> Drying time is temperature, humidity and film thickness dependent. Shelf Life: 12 months, unopened Store indoors at 40°F to 100°F. (Tinted colors must be used within seven (7) days after tinting) Flash Point: 111°F PMCC Reducer/Clean Up: Aromatic 100, R2K5			@ 40°F	@ 77°F	@ 100°F	To touch:	4 hours	2 hours	30 minutes	To recoat				minimum:	48 hours	9 hours	3 hours	maximum:	14 days	14 days	14 days	Foot Traffic:	48 hours	24 hours	12 hours	Heavy Traffic:	7 days	3 days	3 days	To cure:	7 days	3 days	3 days	System Tested: (unless otherwise indicated) Substrate: Concrete Surface Preparation: SSPC-SP13/NACE 6 1 ct: ArmorSeal 1000 HS Clear @ 5.0 mils dft 1 ct: ArmorSeal Rexthane I @ 2.0 mils dft Abrasion Resistance: Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load Result: 116 mg loss Adhesion: Method: ASTM D4541 Result: 350 psi, 100% concrete failure Hot Tire Pick-Up: Method: ITM P213.00 @ 140°F Result: Passes Moisture Condensation Resistance: Method: ASTM D4585, 100°F, 1000 hours Result: Rating 10 per ASTM D714 for blistering Pencil Hardness: Method: ASTM D3363 Result: H Slip Resistance, Floors: Method: ASTM C1028-96, .60 minimum Static Coefficient of Friction Result: Passes wet and dry, with and without SharkGrip Additive Resists fumes, splash, and spillage of mild acids, alkalis, salts, aliphatic and aromatic hydrocarbon solvents, lubricating oils, and Skydrol. (ASTM D1308).	
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RECOMMENDED SYSTEMS	SURFACE PREPARATION
Concrete: 1 ct. AR-I900 Urethane Hybrid, reduced 10% @ 1.5 - 2.0 mils dft 1-2 cts. AR-I900 Urethane Hybrid @ 2.0 - 3.0 mils dft/ct Concrete: 1 ct. AR-I900 Urethane Hybrid Primer @ 1.5 - 2.0 mils dft 1-2 cts. AR-I900 Urethane Hybrid @ 2.0 - 3.0 mils dft/ct Concrete - smooth: 2 cts. AR-I900 Urethane Hybrid @ 2.0 - 3.0 mils dft/ct Steel with Zinc Metalizing: 1 ct. AR-I900 Urethane Hybrid Clear, mist coat, reduced 30% with R7K100. Allow to flash for 20 minutes. AR-I900 Urethane Hybrid Clear @ 2.0 - 3.0 mils dft (Reduced 10% with R7K100) Wood: 1-2 cts. AR-I900 Urethane Hybrid @ 2.0 - 3.0 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 good adhesion. Refer to product Application Bulletin for detailed surface preparation information. Minimum recommended surface preparation: Concrete: SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3 Wood: Clean, dry, sound, smooth Steel with Zinc Metalizing: Clean, dry, sound (clear coat only)
	TINTING
	Tint bases use 844 colorants, only at 100% tint strength must be used within seven (7) days after tinting
	APPLICATION CONDITIONS
	Temperature: air and surface 20°F minimum, 100°F maximum material: 40°F minimum Do not apply over surface ice Relative humidity: Can be applied at relative humidities up to 99%. Refer to product Application Bulletin for detailed application information.
	ORDERING INFORMATION
	Packaging: All colors: 1 gallon containers Haze Gray and Clear: 1 and 5 gallon containers Weight per gallon: 12.09 ± 0.2 lb (may vary with color)
	SAFETY PRECAUTIONS
	Refer to the MSDS sheet before use. Published technical data and instructions are subject to change without notice. Contact your PPI representative for additional technical data and instructions.
The systems listed above are representative of the product's use. Other systems may be appropriate.	
DISCLAIMER	WARRANTY
The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of PPI. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your PPI representative to obtain the most recent Product Data Information and Application Bulletin.	PPI warrants our products to be free of manufacturing defects in accord with applicable PPI 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 PPI. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY PPI, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.





AR-I900 Urethane Hybrid

APPLICATION BULLETIN

APPLICATION PROCEDURES	PERFORMANCE TIPS																																						
Surface preparation must be completed as indicated. Mixing Instructions: Mix paint thoroughly by boxing and stirring before use. Apply paint to the recommended film thickness and spreading rate as indicated below: Recommended Spreading Rate per coat: <table><tr><td>Wet mils:</td><td>3.0 - 4.5</td></tr><tr><td>Dry mils:</td><td>2.0 - 3.0</td></tr><tr><td>Coverage:</td><td>358 - 537 sq ft/gal approximate</td></tr></table> NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. Drying Schedule @ 3.0 mils wet @ 50% RH: <table><tr><td></td><td>@ 40°F</td><td>@ 77°F</td><td>@ 100°F</td></tr><tr><td>To touch:</td><td>4 hours</td><td>2 hours</td><td>30 minutes</td></tr><tr><td>To recoat</td><td></td><td></td><td></td></tr><tr><td> minimum:</td><td>48 hours</td><td>9 hours</td><td>3 hours</td></tr><tr><td> maximum:</td><td>14 days</td><td>14 days</td><td>14 days</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>7 days</td><td>3 days</td><td>3 days</td></tr><tr><td>To cure:</td><td>7 days</td><td>3 days</td><td>3 days</td></tr></table> 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.	Wet mils:	3.0 - 4.5	Dry mils:	2.0 - 3.0	Coverage:	358 - 537 sq ft/gal approximate		@ 40°F	@ 77°F	@ 100°F	To touch:	4 hours	2 hours	30 minutes	To recoat				minimum:	48 hours	9 hours	3 hours	maximum:	14 days	14 days	14 days	Foot Traffic:	48 hours	24 hours	12 hours	Heavy Traffic:	7 days	3 days	3 days	To cure:	7 days	3 days	3 days	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. Anti-slip additives, may be added to the coating to provide some slip resistance. This product should not be used in place of a non-skid finish. Urethane floor coatings may exhibit tire tracking. Pour a small amount of Aromatic 100, R2K5 over the top of the paint in the can to prevent skinning or gelling. Place a temporary cover over the pail to keep excessive moisture, condensation, fog, or rain from contaminating the coating. Tinted colors must be used within seven (7) days after tinting. It is recommended that partially used cans not be sealed/closed for use at a later date. 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.
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CLEAN UP INSTRUCTIONS	SAFETY PRECAUTIONS																																						
Clean spills and spatters immediately with Aromatic 100, R2K5. Clean tools immediately after use with Aromatic 100, R2K5. Follow manufacturer's safety recommendations when using any solvent.	Refer to the MSDS sheet before use. Published technical data and instructions are subject to change without notice. Contact your PPI representative for additional technical data and instructions.																																						
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The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of PPI. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your PPI representative to obtain the most recent Product Data Information and Application Bulletin.	PPI warrants our products to be free of manufacturing defects in accord with applicable PPI 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 PPI. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY PPI, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.																																						

