

ARMORSEAL®1K

WATERBASED URETHANE FLOOR ENAMEL

B65W775 EXTRA WHITE B65T775 CLEAR TINT BASE B65A775 HAZE GRAY

VILLIAIVIS			B65C775	CLEAR COAT			
PRODUCT INFORMATION Revised 10/06							
Product Description			RECOMMENDED USES				
ARMORSEAL 1K Waterbased Urethane Floor Enamel is a gloss, high performance, one component polyester waterbased urethane, formulated specifically for industrial floor applications. Provides outstanding abrasion resistance, good chemical resistance, with excellent color and gloss retention. • Fast dry • VOC compliant • Excellent color and gloss retention • Chemical resistant • Impact and abrasion resistant • Performance comparable to two component WB urethane • Resistant to "hot tire" pick-up • May exhibit "tire tracking"			For use over prepared concrete floors or previously painted floor surfaces in sound condition. • Manufacturing plants • Laboratories • Schools • Hospitals • Aircraft Hangers • Interior high maintenance areas • Exterior floors-Helipads • Suitable for use in USDA inspected facilities • Meets ADA requirements for slip resistance for floors				
Product Characteristics			Performance Characteristics				
Finish:	Gloss		System Tested: (unless otherwise Substrate:	e indicated) Concrete			
Color:	•	f colors possible.	Surface Preparation: Clean, d 1 ct. ArmorSeal Floor Plex 710 1 ct. ArmorSeal 1K WB Uretha	dry, sound 0 Primer @ 2.0 mils dft			
Volume Solids:	$25.5\% \pm 2\%$, (34% ± 2%, (0) (May vary by 0)	Colors)	@ 3.0 mils dft Abrasion Resistance:				
Weight Solids:	28.5% ± 2%, 44% ± 2%, (C	(Clear) Colors)	Method: ASTM D4060, CS10 whe Result: 145 mg loss Adhesion: Method: ASTM D4541	eel, 1000 cycles, 1 kg load			
VOC (EPA Method 24):	<250 g/L; 2.0	lb/gal	Result: 350 psi, 100% Concrete				
Recommended Spreading Rate per coat:			Direct Impact Resistance: Topcoa Method: ASTM D2794	at only			
Wet mils:	Clear Coat 4.0 - 8.0	Colors 6.0 - 12.0	Result: 160 in. lb. Reverse Impact Resistance: Topo	coat only			

2.0 - 4.0 1.0 - 2.0 Dry mils: Coverage: sq ft/gal approx. 204 - 408 136 - 272

Apply by brush or roller only.

Drying Schedule @ 4.0 mils wet @ 50% RH:

@55°F @ 77°F @120°F To touch: 1 1/2 hours 45 minutes 25 minutes Foot traffic: 18 hours 8 hours 6 hours Heavy traffic: 24 hours 18 hours 10 hours To recoat (self): minimum: 8 hours 6 hours 3 hours 30 days 30 days 30 days maximum: 14 days 14 days To cure: 14 days If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Shelf Life: 24 months, unopened, at 77°F

Store indoors at 40°F to 100°F

Flash Point: >200°F, Seta Flash, mixed

Reducer/Clean Up: Water

ASTM D2794 Method: Result: 100 in. lb. **Dry Heat Resistance:** Method: **ASTM D2485**

150°F, intermittent 250°F Result:

Flexibility:

Method: ASTM D522, 180° bend, 1/4" mandrel

Result: Passes Hot Tire Pick-up: Method: ITM @ 140°F, Result: passes

Pencil Hardness: Topcoat only

ASTM D3363 Method: Result:

Scrub Resistance:

Method: ASTM 141-6192, 10,000 cycles

Result: TBD

Slip Resistance, Floors

ASTM C1028-96, 0.60 minimum Static Method:

Coefficient of Friction

Pass dry with and without SharkGrip Additive Result:

Pass wet with SharkGrip Additive

Resists splash, spillage, and fumes of dilute acids,

alkalies, solvents, and fuels

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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 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 Infor-

mation and Application Bulletin.

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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

defective product or the refund of the purchase price paid for the defective

product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUAR-

ANTEE 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.

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PRODUCT INFORMATION

RECOMMENDED SYSTEMS SURFACE PREPARATION Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material Concrete floors, unpainted: ArmorSeal Floor Plex 7100 Primer @ 1.5 - 2.0 mils dft/ct ** to ensure adequate adhesion. Refer to product Application Bulletin for detailed surface prepa-1-2 cts. ArmorSeal 1K WB Urethane Floor Enamel @ 2.0 ration information. 4.0 mils dft/ct Concrete floors, unpainted: Clear Only (B65C775) 1 ct ArmorSeal 1K Urethane Clear, Reduced 10% by volwith water @ 2.0 mils dft (minimum) 2 cts ArmorSeal 1K Urethane Clear @ 2.0 mils/dft/ct Do not use hydrocarbon solvents for cleaning. Minimum recommended surface preparation: *Concrete Masonry: SSPC13/NACE 6 (or) ICRI, 03732, CSP 1-2 (minimum) *Primer required Note: Three Coat System is required TINTING Concrete floors, previously painted: Spot prime bare areas with 1 ct. ArmorSeal Floor Plex 7100 Primer @ 1.5 - 2.0 mils dft/ct ** Tint bases use EnviroToner Colorants at 100% strength. Five minutes minimum mixing on a mechanical shaker is required 1-2 cts. ArmorSeal 1K WB Urethane Floor Enamel @ 2.0 for complete mixing of color. 4.0 mils dft/ct **Painted Surfaces in Sound Condition:** 1-2 cts. ArmorSeal 1K WB Urethane Floor Enamel @ 2.0 -Do not use Blend-A-Color toner 4.0 mils dft/ct **APPLICATION CONDITIONS** **At relative humidities above 75%, allow 16+ hours before Temperature: 50°F minimum, 120°F maximum topcoating ArmorSeal Floor-Plex 7100 Primer. (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: 8.7 ± 0.2 lb (Clear) 9.7 ± 0.2 lb (White, Haze Gray) (may vary by color) SAFETY PRECAUTIONS Refer to the MSDS sheet before use. Published technical data and instructions are subject to The systems listed above are representative of the product's change without notice. Contact your Sherwin-Williams repreuse. Other systems may be appropriate. sentative for additional technical data and instructions. DISCLAIMER WARRANTY



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APPLICATION BULLETIN

Revised 10/06

SURFACE PREPARATION	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 minimum, 120°F maximum (air, surface, and material) At least 5°F above dew point
Do not use hydrocarbon solvents for cleaning.	Relative humidity:	85% maximum
Poured Concrete		

New

For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI, 03732, CSP 1-2. 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. Primer required

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 standard 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 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 Primer required.

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

The following is a guide. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up Water

Brush

Brush Nylon/Polyester

Reduction As needed up to 10% by volume

Roller

If specific application equipment is not listed above, equivalent equipment may be substituted.

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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 per coat:

	Clear Coat	Colors
Wet mils:	4.0 - 8.0	6.0 - 12.0
Dry mils:	1.0 - 2.0	2.0 - 4.0
Coverage:	sq ft/gal approx. 204 - 408	136 - 272

Apply by brush or roller only.

Drying Schedule @ 4.0 mils wet @ 50% RH: @55°F

To touch:	1 1/2 hours	45 minutes	25 minutes		
Foot traffic:	18 hours	8 hours	6 hours		
Heavy traffic:	24 hours	18 hours	10 hours		
To recoat (self):					
minimum:	8 hours	6 hours	3 hours		
maximum:	30 days	30 days	30 days		
To cure:	14 days	14 days	14 day		
If maximum recoattime is exceeded, abrade surface before recoating. Drying					

@ 77°F

@120°F

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. 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.

When using as a clear system (B65C775), please refer to the product data page: Recommended Systems. Three coats are required.

Excessive reduction of material can affect film build, appearance, and adhesion.

Drying time is temperature, humidity, and film thickness dependent.

Always test adhesion by applying a test patch of 2-3 square

Allow to dry one week before checking adhesion.

Do not use hydrocarbon solvent for cleaning.

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.

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DISCLAIMER

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WARRANTY

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 GUAR-ANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUD-ING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.