

ArmorSeal Heavy Duty Floor

Coatings

8.45 ARMORSEAL® FLOOR-THANE® CRU POLYESTER URETHANE B65-800 SERIES

PART A PART B

HARDENER

Revised 8/05

PRODUCT INFORMATION

B65V800

PRODUCT DESCRIPTION RECOMMENDED USES • For industrial, commercial, or marine floor use where a ARMORSEAL FLOOR-THANE CRU is a heavy duty, two component, exterior/interior, VOC compliant, high solids, polyesheavy duty polyurethane floor coating is required ter-aliphatic urethane industrial floor coating. Provides a high · For use over concrete, steel, and wood surfaces gloss, flexible finish with maximum gloss retention, color re-· Resists splash, spillage, and fumes of dilute acids, alkatention, and chalk resistance. lies, solvents, and fuels Exterior floors (helipads) · Auto service centers, computer rooms • Outstanding resistance a wide range of chemical, weather, · Suitable for use in USDA inspected facilities. and mechanical conditions. · Abrasion and impact resistant · Superior exterior color and gloss retention. **PERFORMANCE CHARACTERISTICS PRODUCT CHARACTERISTICS** Finish: Gloss Abrasion Resistance: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load Method: Color: Haze Gray, Extra White,, Clear, Safety Result: 76 mg loss (average of 5 trials) Yellow, and a wide range of colors Adhesion, steel: available Method: ASTM D3359 Method B Result: 5B, 100% Retention Volume Solids: 65% ± 2%, mixed, may vary by color Method: ASTM D4541 1200 psi Result Weight Solids: 76% ± 2%, mixed, may vary by color **Direct Impact Resistance:** VOC (EPA Method 24): <340 g/L; 2.8 lb/gal Unreduced: Method: **ASTM D2794** mixed Reduced 10%: <400g/L; 3.3 lb/gal Result: 100 in. lb. Mix Ratio: 3:1 by volume **Dry Heat Resistance:** Method: **ASTM D2485 Recommended Spreading Rate per coat:** Result: 200°F, 250°F intermittent Wet mils: 3.0 - 4.5 Dry mils: 2.0 - 3.0 **Exterior Durability:** 360 - 545 sq ft/gal approximate Coverage: 2 years at 45° South Method: Excellent, 87% gloss retention Result: Drying Schedule @ 3.0 mils wet @ 50% RH: @50°F @ 77°F @100°F Flexibility: (urethane only) To touch: 16 hours 2 hours 30 minutes ASTM D522, 180° bend, 1/4" mandrel Method: 24 hours To handle: 10 hours 2 hours Result: Passes foot traffic: 24 hours 12 hours 8 hours heavy traffic: **Humidity Resistance:** 5 days 72 hours 48 hours ASTM D4585, 100°F, 2000 hours Method: To recoat: Result: No blistering, cracking, softening or delamination 2 hours minimum: 24 hours 12 hours 48 hours 24 hours maximum. 3 days **Pencil Hardness:** To cure: 7 days 7 days 5 days ASTM D3363 Method: If maximum recoat time is exceeded, abrade surface before recoating. Result: 6H Drying time is temperature, humidity, and film thickness dependent. Salt Fog Resistance, with primer: Pot Life: 5 hours 4 hours 45 minutes Method: ASTM B117, 1000 hours Rating 10 per ASTM D610 for rusting, less than 1/ Result: Sweat-in-Time: None required 16" creepage at scribe. No blistering, cracking, softening, or delamination of the film. Shelf Life: 12 months, unopened Store indoors at 40°F to 100°F Slip Resistance, Floors: ASTM C1028-96, .60 minimum Static Coefficient Method: Flash Point: 102°F TCC, mixed of Friction Result: Passes wet and dry, with and without SharkGrip Reducer/Clean Up: Reducer #132, R7K132 Additive



ArmorSeal Heavy Duty Floor Coatings

8.45 ARMORSEAL® FLOOR-THANE® CRU POLYESTER URETHANE B65-800 SERIES

Part A Part B

HARDENER

PRODUCT INFORMATION

B65V800

RECOMMENDED SYSTEMS	SURFACE PREPARATION
Concrete/Wood:1 ct.ArmorSeal 1000HS (reduced 1 pt/gal with R7K54)2 cts.ArmorSeal Floor-Thane CRU @ 2.0 - 3.0 mils dft/ct	Surrace must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.
Steel: 1 ct. Recoatable Epoxy Primer @ 4.0-5.0 mils dft 2 ct. ArmerCool Floor Thoma CBU @ 2.0 - 2.0 mile dft/ct	Refer to product Application Bulletin for detailed surface preparation information.
 Painted Surfaces in Sound Condition: 1-2 cts. ArmorSeal Floor-Thane CRU @ 2.0 - 3.0 mils dft/ct 	Minimum recommended surface preparation: * Iron & Steel: SSPC-SP6/NACE 3 * Concrete: SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3 Wood: Clean, smooth, dust free
	* Primer required
	TINTING
	Tint Part A with 844 Colorant at 200% tint strength (white and clear only). Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.
	APPLICATION CONDITIONS
	Temperature: 40°F minimum, 100°F maximum (air, surface, and material) At least 5°F above dew point 75%
	Relative numicity. 75% maximum
	Refer to product Application Bulletin for detailed application information.
	Ordering Information
	Packaging:1 gallon mix:4 gallon mix:PartA:.75 gallons3 gallonsPart B:1 quart1 gallon(premeasured components)
	Weight per gallon: 11.4 ± 0.2 lb mixed, may vary with color
	SAFETY PRECAUTIONS
	Refer to the MSDS sheet before use.
The systems listed above are representative of the product's use. Other systems may be appropriate.	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams repre- sentative for additional technical data and instructions.
Disclaimer	WARRANTY
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.	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, INCLUD- ING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



ArmorSeal Heavy Duty Floor Coatings

8.45A ARMORSEAL® FLOOR-THANE® CRU POLYESTER URETHANE B65-800 Series

Part A Part B

B65V800

HARDENER

APPLICATION BULLETIN Revised 8/05					
SURFACE PREPARATION		ATION 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. Iron & Steel	Temperature:	40°F minimum, 100°F maximum (air, surface, and material) At least 5°F above dew point			
Remove all oil and grease from surface by Solvent Cleaning per SSPC- SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (1-2 mils). Prime any bare steel the same day as it is cleaned or before flash rusting	Relative humidity:	75% maximum			
occurs.	APPLIC	ATION EQUIPMENT			
Poured Concrete					
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 sandblast- ing, shotblasting, mechanical scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH be-	The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduc- tion must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.				
tween 8.0 and 10.0. Allow to dry thoroughly prior to coating. Old	Reducer/Clean Up	. Reducer #132, R7K132			
Surface preparation is done in much the same manner as new con- crete, 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 scari- fication, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, Kem Cati-Coat HS Epoxy Filler/Sealer 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 Etching Concrete. ASTM D4260 Standard Practice for Etching Concrete. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete. SSPC-SP13/Nace 6 Surface Preparation of Concrete. ICRI 03732 Concrete Surface Preparation	Airless Spray Pressure Hose Tip Filter Reduction Conventional Spray Gun Cap Tip Atomization Pressure Fluid Pressure Reduction	. 2400 - 3000 psi . 3/8" ID 013"017" . 60 mesh . As needed up to 10% by volume . Binks 95 . 63P . 66 . 50 - 60 psi . 20 - 30 psi . As needed up to 10% by volume			
 Wood Surface must be clean, dry and sound. 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 or burned, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked. 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. 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 products 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. 	Brush Brush Reduction Roller Cover Reduction If specific application equ lent equipment may be s	 Natural Bristle Not recommended 1/4" woven with phenolic core Not recommended uipment is not listed above, equiva- ubstituted. 			



ArmorSeal Heavy Duty Floor Coatings

8.45A ARMORSEAL® FLOOR-THANE® CRU POLYESTER URETHANE B65-800 SERIES

Part A Part B

Series Hardener

APPLICATION BULLETIN

B65V800

APPLICATION PROCEDURES				Performance Tips	
Surface preparation must be completed as indicated. Mix contents of each component thoroughly with power agita-		dicated. th power agita-	Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.		
tion. Make certain no pigment remains on the bottom of the can. Then combine three parts 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. If reducer is used, add only after both components have been thoroughly mixed. If an anti-slip finish is desired, the additive is mixed into the final coat just prior to application. (EXCEPTION: If anti-slip is desired with Clear finish, it should be hand broadcast). A 3/4" pile roller is recommended for the final coat when anti-slip aggregate is used.			Part A with one ne mixture with n as indicated.	When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.	
			ents have been mixed into the N: If anti-slip is adcast). A 3/4"	Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, rough- ness or porosity of the surface, skill and technique of the ap- plicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.	
			when anti-slip	Excessive reduction of material can affect film build, appear- ance, and adhesion.	
Apply paint at the recommended film thickness and spread- ing rate as indicated below:			s and spread-	Do not apply the material beyond recommended pot life.	
Wet mils: 3.0 - 4.5			Do not mix previously catalyzed material with new.		
Dry mils: Coverage:	2.0 - 3.0 ge: 360 - 545 sq ft/gal approximate			In order to avoid blockage of spray equipment, clean equip- ment before use or before periods of extended downtime with Reducer #132_R7K132	
Drying Schedule @ 3.0 mils wet @ 50% RF @50°F@ 77°FTo touch:16 hours2 hoursTo handle:24 hours10 hoursfoot traffic:24 hours12 hoursheavy traffic:5 days72 hoursTo recoat:minimum:24 hours12 hoursmaximum:3 days48 hoursTo cure:7 days7 days	@ 77°F 2 hours	@100°F 30 minutes	When applying the clear, apply at 3.0 mils wet maximum.		
	24 hours 24 hours 5 days	10 hours 12 hours 72 hours	2 hours 8 hours 48 hours	Mixed coating is sensitive to water. Use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and color.	
	12 hours 48 hours 7 days	2 hours 24 hours 5 days	Additive of anti-slip aggregate produces only a light nonslip texture. Product should not be used in place of a nonskid finish when safety is a concern.		
If maximum recoattime is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.		erecoating. Drying ent.	Material cannot be sprayed if anti-slip aggregate is used.		
Pot Life:	5 hours	4 hours	45 minutes	Shot blasted floors will require a high build primer.	
Sweat-in-Time: None required Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance			m recommended	When rolling this product, always maintain a wet edge to avoid roller marks. Roll as close to any cut-in areas as possible to eliminate visual imperfections. Roller application must be from a roller tray, not by pouring the material onto the surface.	
			Coated surfaces may discolor under tires due to tire plasti- cizer migration.		
				Refer to Product Information sheet for additional performance characteristics and properties.	
CLEAN UP INSTRUCTIONS			SAFETY PRECAUTIONS		
Clean spills and spatters immediately with Reducer #132, R7K132. Clean tools immediately after use with Reducer #132, R7K132. Follow manufacturer's safety recommendations when using any solvent.		Reducer #132, Reducer #132	Refer to the MSDS sheet before use.		
		ommendations	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.		
DISCLAIMER			WARRANTY		
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.		ict Data Sheet are Villiams Company. subject to change ion. Consult your roduct Data Infor-	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, INCLUD- ING MERCHANTABILITY AND EITNESS FOR A PARTICILI AR PLIPPOSE		