



ArmorSeal
Heavy Duty
Floor
Coatings

8.14

ARMORSEAL® 700 HS
HIGH SOLIDS WATER BASED
EPOXY FLOOR COATING

PART A
PART B

B70Q20
B60VQ20

SERIES
HARDENER

PRODUCT INFORMATION

Revised 6/06

PRODUCT DESCRIPTION	RECOMMENDED USES
<p>ARMORSEAL 700 HS HIGH SOLIDS WATER BASED EPOXY FLOOR COATING is a 2 component, low VOC, epoxy floor finish/coating designed to provide an attractive, uniform appearance in industrial environments. Formulated for use in medium to heavy traffic conditions. Exceptional chemical resistance, abrasion resistance, and excellent gloss retention.</p>	<ul style="list-style-type: none"> As a high build, low odor epoxy floor coating For industrial, commercial, and marine applications Light assembly and production areas Hospitals, Clean Rooms, Boiler Rooms Laboratories Industrial/Commercial Office Areas Suitable for use in USDA inspected facilities
PRODUCT CHARACTERISTICS	PHYSICAL PROPERTIES
<p>Finish: Gloss</p> <p>Color: Clear, Haze Gray, Sandstone, Tile Red, White</p> <p>Volume Solids: 96% ± 2%, mixed</p> <p>VOC: <100 g/L; <1.0 lb/gal, mixed</p> <p>Mix Ratio: 2 components, premeasured 3:1 by volume</p> <p>Recommended Spreading Rate per coat: Wet mils: 7.0 - 8.0 Dry mils: 6.5 - 7.5 Coverage: 200 - 230 sq ft/gal</p> <p>Drying Schedule @ 7.0 mils wet @ 50% RH: @ 72°F To touch: 6 - 8 hours To recoat: minimum: 8 hours maximum: 48 hours To cure: 7 days Light foot traffic: 24 hours If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</p> <p>Pot Life: 40 minutes @ 72°F, 50% RH</p> <p>Sweat-in-time: None required</p> <p>Shelf Life: 12 months, unopened Store indoors at 40°F to 100°F.</p> <p>Flash Point: 200°F, PMCC, mixed</p> <p>Reducer: Not recommended</p> <p>Clean Up: Reducer #54, R7K54 Do not use water.</p>	<ul style="list-style-type: none"> Abrasion resistant Adhesion: >360 psi Chemical resistant Moisture resistant Solvent resistant Dry heat resistance: 180°F Viscosity: 2400 cps Pencil Hardness: 6H



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RECOMMENDED SYSTEMS	SURFACE PREPARATION
<p>Concrete/Masonry: 1 ct. ArmorSeal Water Based Epoxy Primer Clear @ 2.0 - 3.0 mils dft 1 ct. ArmorSeal 700 HS Water Based Epoxy Floor Coating @ 6.5 - 7.5 mils dft</p> <p>Painted Surfaces in Sound Condition: 1 ct. ArmorSeal Water Based Epoxy Primer Clear @ 2.0 - 3.0 mils dft 1 ct. ArmorSeal 700 HS Water Based Epoxy Floor Coating @ 6.5 - 7.5 mils dft</p> <p>Wood: 1-2 cts. ArmorSeal 700 HS Water Based Epoxy Floor Coating @ 6.5 - 7.5 mils dft/ct</p> <p>The systems listed above are representative of the products use, other systems may be appropriate.</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 Application Bulletin for detailed surface preparation information.</p> <p>Minimum recommended surface preparation: Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3 Wood: Clean, smooth, dust free</p>
	TINTING
	Do not tint.
	APPLICATION CONDITIONS
	<p>Temperature: 55°F minimum, 95°F maximum (air, surface, and material) At least 5°F above dew point</p> <p>Relative humidity: 90% maximum, below 80% for best results</p> <p>Refer to product Application Bulletin for detailed application information.</p>
	ORDERING INFORMATION
	<p>Packaging: 1 gallon kits and 5 gallon kits</p> <p>Weight per gallon: 11.2 ± 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>
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>



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APPLICATION BULLETIN

Revised 6/06

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>Poured Concrete New 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>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.</p> <p>Fill all cracks, voids and bugholes with ArmorSeal Crack Filler.</p> <p>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</p> <p>Wood 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.</p> <p>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, clean surface to sound substrate and treat as a new surface as above.</p>	<p>Temperature: 55°F minimum, 95°F maximum (air, surface, and material) At least 5°F above dew point</p> <p>Relative humidity: 90% maximum, below 80% for best results</p> <tr> <th colspan="2" style="text-align: center;">APPLICATION EQUIPMENT</th> </tr> <tr> <td style="vertical-align: top;"> <p>Reducer Not recommended</p> <p>Clean Up Reducer #54, R7K54 do not use water</p> <p>Brush Brush Nylon/Polyester or Natural Bristle</p> <p>Roller Cover 1/4"-3/8" woven with phenolic core</p> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p> </td> <td></td> </tr>	APPLICATION EQUIPMENT		<p>Reducer Not recommended</p> <p>Clean Up Reducer #54, R7K54 do not use water</p> <p>Brush Brush Nylon/Polyester or Natural Bristle</p> <p>Roller Cover 1/4"-3/8" woven with phenolic core</p> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p>	
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APPLICATION PROCEDURES	PERFORMANCE TIPS
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Surface preparation must be completed as indicated.

Mixing Instructions:
 To mix 1 gallon units: use electric or air mixer (approximately 250 rpm) with metal mixing blade (Jiffy Model HS or equal). Pre-mix each component separately. Pour hardener contents into slack-filled resin can and mix for 2 to 3 minutes until material is thoroughly blended and emulsified. To mix 5 gallon units: use same procedure as mixing 1 gallon units except a larger blade (Jiffy Model ES or equal) is required.

*Immediately pour entire mixture onto prepared substrate and spread with a flat rubber squeegee (preferred), or working out of a paint pan or bucket with grid, apply material to surface using 1/4" - 3/8" nap roller cover. Product can be topcoated in 8 hours @ 72°F.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:
 Wet mils: 7.0 - 8.0
 Dry mils: 6.5 - 7.5
 Coverage: 200 - 230 sq ft/gal

Drying Schedule @ 7.0 mils wet @ 50% RH: @ 72°F
 To touch: 6 - 8 hours
 To recoat:
 minimum: 8 hours
 maximum: 48 hours
 To cure: 7 days
 Light foot traffic: 24 hours

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 40 minutes @ 72°F, 50% RH

Sweat-in-time: None required

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

Stripe coat all crevices, welds and sharp angles to prevent early failure in these areas.

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.

No reduction of material is recommended as it can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

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.

To achieve a stipple finish, ArmorSeal 700 HS Texture Additive can be added at the rate of 1-1/2 oz per mixed gallon. Mix the Texture Additive into the Part A side prior to catalyzation.

Refer to Product Information sheet for additional performance characteristics and properties.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer #54, R7K54. Clean tools immediately after use with Reducer #54, R7K54. Follow manufacturer's safety recommendations when using any solvent.

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

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DISCLAIMER

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WARRANTY

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