



ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL®

WATER BASED EPOXY PRIMER/SEALER

PART A
PART B

B70VQ10
B60VQ10

CLEAR
HARDENER

Revised: November 4, 2019

PRODUCT INFORMATION

8.10

PRODUCT DESCRIPTION

ARMORSEAL WATER BASED EPOXY PRIMER/SEALER is compatible with most high performance finish coats and, in many cases, can be used as an effective barrier coat when coating previously painted surfaces. The product can also be used as a primer for damp concrete or masonry surfaces.

- Water Clean Up
- Low Odor
- Fast Dry

PRODUCT CHARACTERISTICS

Finish:	Gloss
Color:	Clear
Volume Solids:	38% ± 2%, mixed
VOC (calculated):	<250 g/L; 2.08 lb/gal, mixed
Mix Ratio:	2 components, premeasured 4:1 by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	5.0 (125)	7.0 (175)
Dry mils (microns)	2.0 (50)	3.0 (75)
~Coverage sq ft/gal (m ² /L)	200 (4.9)	300 (7.3)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	608 (14.9)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 6.0 mils wet (150 microns):

@ 72°F/22°C
50% RH

To touch: 1-2 hours

To recoat:

minimum: 6 hours

maximum: 48 hours

To cure: 7 days

If maximum recoat time is exceeded, abrade surface before recoating.

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

Pot Life: 6-8 hours

Sweat-in-Time: None required

Shelf Life: 36 months, unopened
Store indoors at 40°F (4.5°C) to 100°F (38°C)

Flash Point: 200°F (93°C), PMCC, mixed

Reducer: Not recommended

Clean Up: Water

RECOMMENDED USES

Primer for concrete or wood substrates as well as for previously painted surfaces. To be used in conjunction with most ArmorSeal floor finishes.

- For industrial, commercial, and marine applications
- Can be applied to damp masonry surfaces
- Do not use as a clear topcoat
- Suitable for use in USDA inspected facilities

PERFORMANCE CHARACTERISTICS

- Abrasion resistant
- Excellent adhesion properties
- Fast dry
- Chemical resistant
- Impact resistant
- Solvent resistant
- Dry heat resistance: 180°F (82°C)
- Can be applied to damp concrete or masonry surfaces

Test Name	Test Method	Results
Surface Burning*	ASTME84/ NFPA 255	Flame Spread Index 20; Smoke Develop- ment Index 35

*Armorseal WB Primer (Clear) at 2.5 mils (63 microns) DFT topcoated with Armorseal 650 SL/RC at 17.5 mils (438 microns) DFT



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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
Concrete/Masonry:			
1 ct.	ArmorSeal Water Based Epoxy Primer/Sealer	2.0-3.0	(50-75)
1 ct.	ArmorSeal 650 SL/RC	10.0-30.0	(250-750)
Concrete/Masonry:			
1 ct.	ArmorSeal Water Based Epoxy Primer/Sealer	2.0-3.0	(50-75)
2 cts.	ArmorSeal 8100	1.5-2.0	(40-50)
Concrete/Masonry/Wood:			
1 ct.	ArmorSeal Water Based Epoxy Primer/Sealer	2.0-3.0	(50-75)
1 ct.	ArmorSeal 1K WB Urethane	2.0-4.0	(50-100)

The systems listed above are representative of the product's use, other systems may be appropriate.

SURFACE PREPARATION

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.

Refer to Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3

Wood, Interior: Clean, smooth, dust free

Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusty	D St 2	D St 2	SP 2	-
Rusty	C St 3	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusty	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature: 55°F (13°C) minimum, 95°F (35°C) maximum
(air, surface, and material)
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:
1 gallon (3.78L) kit contains Part A and Part B
5 gallon (18.9L) mix Part A - 4 gal. (15.1L) in a 5 gal. (18.9L) container
Part B - 1 gallon (3.78L)

Weight: 8.6 ± 0.2 lb/gal ; 1.03 Kg/L, mixed

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

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 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.

DISCLAIMER

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SURFACE PREPARATIONS

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.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910.

Follow the standard methods listed below when applicable:

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 No. 310.2R Concrete Surface Preparation.

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.

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 CONDITIONS

Temperature: 55°F (13°C) minimum, 95°F (35°C) maximum
(air, surface, and material)
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

APPLICATION EQUIPMENT

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 reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reduction:Not recommended

Clean Up:Water

Brush

Brush.....Nylon/Polyester

Roller

Cover3/8" woven with solvent resistant core

Squeegee

Squeegee.....Flat, rubber

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

Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
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Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusty	D St 2	D St 2	SP 2	-
Rusty	C St 3	C St 3	SP 3	-
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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

To mix 1 gallon (3.78L) units: Use electric or air mixer (approximately 250 rpm) with metal mixing blade (Jiffy Model HS or equal). 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 (18.9L) units: use same procedure as mixing 1 gallon (3.78L) units except a larger blade (Jiffy Model ES or equal) is required.

Working out of a paint pan or bucket with grid apply material to surface using 3/8" nap roller cover. Product can be topcoated in 6 hours @ 72°F (22°C).

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	5.0 (125)	7.0 (175)
Dry mils (microns)	2.0 (50)	3.0 (75)
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To touch: 1-2 hours

To recoat:

minimum: 6 hours

maximum: 48 hours

To cure: 7 days

If maximum recoat time is exceeded, abrade surface before recoating.

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

Pot Life: 6-8 hours

Sweat-in-Time: None required

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

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 manufacturers safety recommendations when using mineral spirits.

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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.

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.

When coating previously painted surfaces, always apply test patch application and examine for lifting and proper intercoat adhesion. If lifting occurs, remove old coating or apply an appropriate barrier coat.

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

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