ArmorSeal Heavy Duty Floor Coatings

ARMORSEAL®
WATER-BASED EPOXY PRIMER/SEALER

PART A	B70AQ11	LIGHT GRAY
PART B	B60VQ11	HARDENER

Revised 11/10

PRODUCT INFORMATION

8.11

PRODUCT DESCRIPTION

ARMORSEAL WATER BASED EPOXY PRIMER/SEALER is a 2-component product that is compatible with most high performance finish coats. The product can also be used on damp concrete or masonry surfaces.

- Water Clean Up
- Low Odor
- Outstanding application properties
- Low VOC
- Fast Dry

PRODUCT CHARACTERISTICS

Finish:	Satin Sheen
Color:	Light Gray
Volume Solids:	87% ± 2%, mixed
VOC (calculated):	<340 g/L; 2.8 lb/gal, mixed
Mix Ratio:	2 components, premeasured 4:1 by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**6.0** (150)	**8.0** (200)
Dry mils (microns)	**5.0** (125)	**7.0** (175)
~Coverage sq ft/gal (m^2/L)	**200** (4.9)	
Theoretical coverage **sq ft/gal** (m^2/L) @ 1 mil / 25 microns dft	**1392** (34.1)	

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

Drying Schedule @ 7.0 mils wet (175 microns):

@ 72°F/22°C
50% RH

To touch:	4-6 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:	30 minutes
Sweat-in-Time:	None required

Shelf Life:	12 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
- Designed to be topcoated
- 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.

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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct. Mils	(Microns)
Concrete/Masonry:			
1 ct.	ArmorSeal Water Based Epoxy Primer/Sealer	5.0-7.0	(125-175)
1 ct.	ArmorSeal 650 SL/RC	10.0	(250)
Concrete/Masonry:			
1 ct.	ArmorSeal Water Based Epoxy Primer/Sealer	5.0-7.0	(125-175)
2 cts.	ArmorSeal Floor-Plex 7100	1.5-2.0	(40-50)
Concrete/Masonry:			
1 ct.	ArmorSeal Water Based Epoxy Primer/Sealer	5.0-7.0	(125-175)
1-2 cts.	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. 310.2, 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	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	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 ; 1.0 Kg/L, mixed

SAFETY PRECAUTIONS

Refer to the MSDS 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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APPLICATION BULLETIN

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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. 310.2, 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. Primer required.

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. 310.2 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.

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	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

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.

Reducer: .....Not recommended

Clean up .....Water

Brush
Brush.....Nylon/Polyester

Roller
Cover .....3/8" woven with solvent resistant core

Squeegee
Squeegee.....Flat, rubber

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

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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). Pre-mix both components. 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.

Immediately pour a substantial portion of mixture onto the floor and spread material using a flat, rubber squeegee using sufficient pressure to work the primer into the porous surface. Immediately backroll the material with a quality 3/8" nap roller leaving 6-8 mils (150-200 microns) on the surface.

The fast set primer can be topcoated in 6 hours at 72°F (22°C). The primer must be tack free before topcoating. If pinholes or porosities are evident after initial cure of primer, repriming may be necessary; especially on very porous concrete.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**6.0** (150)	**8.0** (200)
Dry mils (microns)	**5.0** (125)	**7.0** (175)
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NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

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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:	30 minutes
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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