PRODUCT INFORMATION

Revised: November 4, 2019

ARMORSEAL®
WATER BASED EPOXY PRIMER/SEALER

PART A
B70VQ10
PART B
B60VQ10
CLEAR HARDENER

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

<table>
<thead>
<tr>
<th>Finish:</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Clear</td>
</tr>
<tr>
<td>Volume Solids:</td>
<td>38% ± 2%, mixed</td>
</tr>
<tr>
<td>VOC (calculated):</td>
<td>&lt;250 g/L; 2.08 lb/gal, mixed</td>
</tr>
<tr>
<td>Mix Ratio:</td>
<td>2 components, premeasured 4:1 by volume</td>
</tr>
</tbody>
</table>

Recommended Spreading Rate per coat:

<table>
<thead>
<tr>
<th>Wet mils (microns)</th>
<th>Minimum 5.0 (125)</th>
<th>Maximum 7.0 (175)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry mils (microns)</td>
<td>Minimum 2.0 (50)</td>
<td>Maximum 3.0 (75)</td>
</tr>
<tr>
<td>Coverage sq ft/gal (m²/L)</td>
<td>Minimum 200 (4.9)</td>
<td>Maximum 300 (7.3)</td>
</tr>
</tbody>
</table>

Theoretical coverage sq ft/gal (m²/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* | ASTM E84/ NFPA 255 | Flame Spread Index 20; Smoke Development 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
### Product Information

**Recommended Systems**

<table>
<thead>
<tr>
<th>Surface</th>
<th>ISO 8501-1</th>
<th>Swedish Std.</th>
<th>SSPC</th>
<th>NACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete/Masonry:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. ArmorSeal Water Based Epoxy Primer/Sealer</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>SP 5</td>
<td>1</td>
</tr>
<tr>
<td>1 ct. ArmorSeal 650 SL/RC</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
<td>SP 10</td>
<td>2</td>
</tr>
<tr>
<td>Concrete/Masonry:</td>
<td></td>
<td></td>
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<td>Sa 3</td>
<td>Sa 3</td>
<td>SP 5</td>
<td>1</td>
</tr>
<tr>
<td>2 cts. ArmorSeal 8100</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Concrete/Masonry/Wood:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. ArmorSeal Water Based Epoxy Primer/Sealer</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>SP 5</td>
<td>1</td>
</tr>
<tr>
<td>1 ct. ArmorSeal 1K WB Urethane</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>SP 5</td>
<td>1</td>
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</table>

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**

- 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

- 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.
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.

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
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.
**ARMORSEAL®**

**WATER BASED EPOXY PRIMER/SEALER**

**APPLICATION BULLETIN 8.10**

**PART A**

**B70VQ10**

**PART B**

**B60VQ10**

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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:

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- 50% RH
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  - 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.

**DISCLAIMER**

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.

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