ENVIROLASTIC® LT PRIMER

PROTECTIVE & MARINE COATINGS

PART A B81V4900 ISOCYANATE
PART B B81C4900 SERIES

TRM.83 Revised: July 23, 2013

PRODUCT INFORMATION

PRODUCT DESCRIPTION
ENVIROLASTIC LT PRIMER is a low temperature polyurea primer for concrete. It dries quickly for rapid recoat and project turnaround. It can be applied down to 0°F (-18°C).

• Fast dry
• Fast recoat
• Quick return to service
• Long pot life for brush and roll applications
• Airless spray
• Low viscosity for excellent surface wetting

PRODUCT CHARACTERISTICS
Color: Clear
Finish: Semi-gloss
Volume Solids: 65% ± 2%
VOC (EPA Method 24): <50 g/L; 0.42 lb/gal
Mix Ratio: 1:1

Recommended Spreading Rate per coat:

<table>
<thead>
<tr>
<th>Test</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet mils (microns)</td>
<td>3.0 (75)</td>
<td>5.0 (125)</td>
</tr>
<tr>
<td>Dry mils (microns)</td>
<td>2.0 (50)</td>
<td>3.0 (75)</td>
</tr>
<tr>
<td>Coverage sq ft/gal (m²/L)</td>
<td>350 (8.6)</td>
<td>520 (12.7)</td>
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<tr>
<td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft</td>
<td>1040 (25.5)</td>
<td></td>
</tr>
</tbody>
</table>

Coverage dependant upon profile and/or porosity. Multiple coats may be required to seal surface.

Drying Schedule @ 6.0 mils (150 microns):

<table>
<thead>
<tr>
<th>Temp</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°F/-18°C</td>
<td>44 hours</td>
</tr>
<tr>
<td>77°F/25°C</td>
<td>72 hours</td>
</tr>
</tbody>
</table>

To touch: 44 hours 2 hours 30 minutes
To recoat:
minimum: 44 hours 5 hours 1 hour
maximum: 72 hours 24 hours 16 hours

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

Pot Life: 8 hours
Sweat-in-time: None

Flash Point:
Part A: 212°F (100°C)
Part B: 97°F (36°C)
Reducer: Not recommended
Clean Up: MEK, R6K10

Recommended Uses
Envirolastic LT Primer is used where a low temperature primer is required, or where a fast dry/fast recoat primer is required.

• Seals concrete
• Allows application of primer and topcoat in single set-up
• Ideal for polyurea and polyurethane elastomer topcoats
• Suitable for use in the Mining & Minerals Industry

Performance Characteristics

Test Name | Test Method | Results
----------|-------------|---------
Adhesion  | ASTM D4541  | Concrete: >350 psi

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PRODUCT INFORMATION

**RECOMMENDED SYSTEMS**

<table>
<thead>
<tr>
<th>Concrete, low temperature or fast set:</th>
<th>Dry Film Thickness / ct. Mils (Microns)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ct. EnviroLastic LT Primer</td>
<td>2.5-4.0** (63-100)**</td>
</tr>
<tr>
<td>1 ct. EnviroLastic AR425</td>
<td>40.0-60.0 (1000-1500)</td>
</tr>
</tbody>
</table>

| Concrete, atmospheric:                         |                                          |
| 1 ct. EnviroLastic LT Primer                  | 2.5-4.0** (63-100)**                     |
| 1 ct. EnviroLastic PA                         | 8.0-12.0 (200-300)                      |

**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 product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:
- Concrete & Masonry:
  - SSPC-SP13/NACE 6 or ICRI No. 310.2, CSP 3-5

**Tinting**

Do not tint.

**APPLICATION CONDITIONS**

Temperature:
- Material: 0°F (-18°C) minimum, 120°F (49°C) maximum
- Air and surface: 0°F (-18°C) minimum, 120°F (49°C) maximum
  - At least 5°F (2.8°C) above dew point
- Relative humidity: 80% maximum

Refer to product Application Bulletin for detailed application information.

**ORDERING INFORMATION**

Packaging:
- Part A: 1 gallon (3.78L) and 5 gallons (18.9L)
- Part B: 1 gallon (3.78L) and 5 gallons (18.9L)

**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.
ENVIROLASTIC® LT PRIMER

**PART A** B81V4900
**PART B** B81C4900
**ISOCYANATE SERIES**

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**APPLICATION BULLETIN**

**TRM.83**

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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 3-5. 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.

**Concrete, Immersion Service:**

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2, CSP 3-5.

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**APPLICATION CONDITIONS**

Temperature:
- Material: 0°F (-18°C) minimum, 120°F (49°C) maximum
- Air and surface: 0°F (-18°C) minimum, 120°F (49°C) maximum
- At least 5°F (2.8°C) above dew point

Relative humidity: 80% maximum

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**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**
- MEK, R6K10

**Airless Spray:**
- Pressure: 1800-2800 psi
- Hose: 3/8" hose
- Tip: 013"-.015"
- Filter: 60 mesh
- Reduction: Not recommended

**Brush:**
- Brush: Natural bristle
- Reduction: Not recommended

**Roller:**
- Brush: 3/8" woven / solvent resistant core
- Reduction: Not recommended

**Conventional Spray:**
- Fluid nozzle: 66
- Air nozzle: 63 pB
- Fluid pressure: 50-70 psi
- Air pressure: 20-25 psi
- Reduction: Not recommended

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

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**Surface Preparation Standards**

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1 BS7079: A1</th>
<th>Swedish Std. SS055900</th>
<th>SSPC</th>
<th>NACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 2</td>
<td>Sa 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Brush-Off Blast</td>
<td>Sa 1</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted</td>
<td>D St 3</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Pitted &amp; Rusted</td>
<td>D St 3</td>
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<td></td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>Rusted</td>
<td>C St 3</td>
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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Do not thin. Caution: Do not agitate in air and moisture.

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

### Recommended Spreading Rate per coat:

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| Dry mils (microns) | 2.0 (50) | 3.0 (75) |

| Coverage sq ft/gal (m²/L) | 350 (8.6) | 520 (12.7) |

Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft: 1040 (25.5)

Coverage dependant upon profile and/or porosity. Multiple coats may be required to seal surface.

### Drying Schedule @ 6.0 mils (150 microns):

- **To touch:**
  - @ 0°F/-18°C: 44 hours
  - @ 40°F/4.5°C: 2 hours
  - @ 77°F/25°C: 30 minutes
  - 50% RH

- **To recoat:**
  - minimum: 44 hours
  - 5 hours
  - 1 hour
  - maximum: 72 hours
  - 24 hours
  - 16 hours

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

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

Pot Life: 8 hours

Sweat-in-time: None

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

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**CLEAN UP INSTRUCTIONS**

Clean spills and spatters immediately with MEK (R6K10). Clean tools and equipment immediately after use (including both "A" and "B" sides of plural component spray system) with MEK (R6K10).

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**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.

**APPLICATION BULLETIN**

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**PERFORMANCE TIPS**

**Do not fill the profile on concrete with excess primer.**

For Immersion Service: (if required) Holiday test in accordance with ASTM D4787 for concrete.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Butyl Cellusolve™ (R6K25), Dowanol PM™, or Propylene Glycol.

While spraying, 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.

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.

**Do not agitate in air and moisture.**

Consult your Sherwin-Williams representative for specific application and performance recommendations.

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

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