ENVIROLASTIC® JS80 SL

PRODUCT INFORMATION

ENVIROLASTIC JS80 SL is a 100% solids, rapid set, semi-rigid, two-component, self leveling, polyurea crack and joint filler that exhibits extraordinary toughness and range of use.

- Fast cure, short downtime
- Foot traffic in 30 minutes
- Prevents joint breakdown
- Jet fuel resistant
- Bridges moving cracks to 1/8"
- Retains physical properties at -20°F (-29°C) to 250°F (121°C)

PRODUCT CHARACTERISTICS

**Finish:** Semi-Gloss
**Color:** Select colors available

**Volume Solids:** 100%
**VOC (calculated):** <50 g/L ; 0.42 lb/gal

**Mix Ratio:** 1:1

**Recommended Usage Rate per gallon (231 cu in/gallon):**
- 1/8" x 1" joint: 154 linear ft/gal approximate
- 1/4" x 1" joint: 77 linear ft/gal approximate
- 1/4" x 1-1/2" joint: 57 linear ft/gal approximate

**Drying Schedule @ 1/4" x 1":**

- @ 73°F/23°C
- 50% RH
- To touch: 10 minutes
- To recoat: minimum: 10 minutes; maximum: 16 hours
- Gel time: 1 minute
- Tack free: 10 minutes
- Light traffic: 30 minutes
- Vehicular traffic: 1 hour
- To cure: 24 hours

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

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

**Pot Life:** None
**Sweat-in-time:** None

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4060</td>
<td>1000 g 1000 cycles CS-17: 35 mg loss</td>
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<tr>
<td>Adhesion</td>
<td>ASTM D4541</td>
<td>Concrete - 350 psi; Steel - 1,750 psi</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion</td>
<td>ASTM C531 (in/in°F)</td>
<td>4 x 10⁻⁶</td>
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<tr>
<td>Crack Bridging (@ -26°C (-15°F) @ 1/8&quot;)</td>
<td>ASTM C836</td>
<td>Pass</td>
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<tr>
<td>Durometer Hardness</td>
<td>ASTM D2240</td>
<td>Shore A-80</td>
</tr>
<tr>
<td>Gardner Impact</td>
<td>ASTM D2794 (1/32&quot; steel panels)</td>
<td>&gt;160 in-lbs, direct and indirect</td>
</tr>
<tr>
<td>Tear Strength</td>
<td>ASTM D624</td>
<td>210 pli</td>
</tr>
<tr>
<td>Tensile Elongation</td>
<td>ASTM D638</td>
<td>255%</td>
</tr>
<tr>
<td>Tensile Modulus</td>
<td>ASTM D638</td>
<td>100% Modulus - 510 psi</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D638</td>
<td>560 psi</td>
</tr>
</tbody>
</table>

Test Name: Test Method: Results

**Recommended Uses**

Designed for use as a contraction or construction joint filler. Ideal for use as a routed crack and/or concrete joint nosing and spall repair material in high traffic industrial floor applications, including:

- Warehousing
- Highways
- Bridges
- Manufacturing
- Parking decks
- Acceptable for use in USDA inspected facilities

- Loading docks
- Cold storage
- Freezer storage
- Aircraft hangars

**Performance Characteristics**

Test Name | Test Method | Results |
---|---|---|
Abrasion Resistance | ASTM D4060 | 1000 g 1000 cycles CS-17: 35 mg loss |
Adhesion | ASTM D4541 | Concrete - 350 psi; Steel - 1,750 psi |
Coefficient of Linear Thermal Expansion | ASTM C531 (in/in°F) | 4 x 10⁻⁶ |
Crack Bridging (@ -26°C (-15°F) @ 1/8") | ASTM C836 | Pass |
Durometer Hardness | ASTM D2240 | Shore A-80 |
Gardner Impact | ASTM D2794 (1/32" steel panels) | >160 in-lbs, direct and indirect |
Tear Strength | ASTM D624 | 210 pli |
Tensile Elongation | ASTM D638 | 255% |
Tensile Modulus | ASTM D638 | 100% Modulus - 510 psi |
Tensile Strength | ASTM D638 | 560 psi |

Manufacturing: Freezer storage

Parking decks: Aircraft hangars

Acceptable for use in USDA inspected facilities

Flash Point: >200°F (93°C)
Viscosity (mixed): 450 cps
Reducer: Not recommended
Clean Up: Butyl Cellusolve™ (R6K25) or Dowanol PM™

www.sherwin-williams.com/protective
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:
Vertical sides of joints are typically prepared by abrasion with saw blades, grinding discs or abrasive blasting to create a profile equal to 80-100 grit sandpaper. Refer to SSPC-SP13/ NACE 6 or ICRI No. 310.2R, CSP 2-3.

Always consider the use of an appropriate primer prior to application of EnviroLastic JS80 SL.

Concrete (low-temp or fast set-all applications):
1 ct. Corobond LT 4.0-8.0 (100-200)
1 application: EnviroLastic JS80 SL as required

Concrete (normal-all applications):
1 ct. Corobond HS 3.0-4.0 (75-100)
1 application: EnviroLastic JS80 SL as required

The systems listed above are representative of the product’s use, other systems may be appropriate.
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 2-3. 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. 310.2R Concrete Surface Preparation.

Temperature:
Material: 60°F (16°C) minimum, 120°F (49°C) maximum
Air and surface: -20°F (-29°C) minimum, 120°F (49°C) maximum
At least 5°F (2.8°C) above dew point
Relative humidity: 80% maximum

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: Butyl Cellusolve™ (R6K25) or Dowanol PM™

Plural Component Dual Feed Metering Equipment:
Equipment: AST GMP-075 "Big Pro"
Static mixer: 1/2" dia, 32 element
Reduction: Not recommended

Plural Component Air Powered Caulk Guns:
Static mixer: 1/2" dia, 32 element
Reduction: Not recommended

If specific application equipment is not listed above, equivalent equipment may be substituted.
Surface preparation must be completed as indicated.

Mixing Instructions: Agitate resin blend (B) component thoroughly with a drum mixer before use to disperse pigment and assure homogeneity. Do not thin. Do not mix "A" and "B" resins together. Use plural component dual feed metering equipment.

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

**Recommended Usage Rate per gallon (231 cu in/gallon):**
- 1/8" x 1" joint: 154 linear ft/gal approximate
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**Drying Schedule @ 1/4" x 1":**
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If maximum recoat time is exceeded, abrade surface before recoating.

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

Paint spills and spatters immediately with Butyl Cellusolve™ (R6K25) or Dowanol PM™. Clean tools and equipment immediately after use with Butyl Cellusolve™ (R6K25) or Dowanol PM™.

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 Butyl Cellusolve™ (R6K25) or Dowanol PM™. Clean tools and equipment immediately after use with Butyl Cellusolve™ (R6K25) or Dowanol PM™.

**Disclaimer**

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