



**ControlTech**  
 Tank Linings,  
 Containment &  
 Corrosion Control  
 Coatings



**TRM.80**

**ENVIROLASTIC® JS80 SL**

**PART A**                    **B81V4000**  
**PART B**                    **B81-4000**

**ISOCYANATE**  
**SERIES**

**PRODUCT INFORMATION**

Revised 5/05

PRODUCT DESCRIPTION		RECOMMENDED USES	
<p><b>ENVIROLASTIC JS80 SL</b> 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.</p> <ul style="list-style-type: none"> <li>• Fast cure, short downtime</li> <li>• Foot traffic in 30 minutes</li> <li>• Prevents joint breakdown</li> <li>• Jet fuel resistant</li> <li>• Bridges moving cracks to 1/8"</li> <li>• Retains physical properties at -20°F to 250°F</li> <li>• No VOCs and low odor</li> <li>• Vehicular traffic in 1 hour</li> <li>• Excellent for spall repair</li> </ul>		<p>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:</p> <ul style="list-style-type: none"> <li>• Warehousing</li> <li>• Highways</li> <li>• Bridges</li> <li>• Manufacturing</li> <li>• Parking decks</li> <li>• Acceptable for use in USDA inspected facilities</li> <li>• Containment</li> <li>• Loading docks</li> <li>• Cold storage</li> <li>• Freezer storage</li> <li>• Aircraft hangars</li> </ul>	
PRODUCT CHARACTERISTICS		PERFORMANCE CHARACTERISTICS	
<p><b>Finish:</b>                    Semi-Gloss</p> <p><b>Color:</b>                    White, Light Gray, Medium Gray, Dark Gray, Black, Beige, Tile Red, Silver Metallic, Caribbean Green</p> <p><b>Volume Solids:</b>                    100%</p> <p><b>VOC (calculated):</b>                    0</p> <p><b>Mix Ratio:</b>                    1:1</p> <p><b>Recommended Usage Rate per gallon: (231 cu in/gallon)</b>            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</p> <p><b>Drying Schedule @1/4" x 1" @ 73°F and 50% RH:</b>            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</p> <p><small>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</small></p> <p><b>Pot Life:</b>                    None</p> <p><b>Sweat-in Time:</b>                    None</p> <p><b>Viscosity (mixed):</b>                    450 cps</p> <p><b>Flash Point:</b>                    &gt;200°F</p> <p><b>Shelf Life:</b>                    12 months, unopened            Store indoors at 70°F to 90°F.</p> <p><b>Reducer:</b>                    Not recommended</p> <p><b>Clean Up:</b>                    Butyl Cellusolve™ (R6K25) or Dowanol PM™</p>	<p><b>Abrasion Resistance</b>            Method: ASTM D4060            Result: 1000 g 1000 cycles CS-17: 35 mg loss</p> <p><b>Adhesion</b>            Method: ASTM D4541            Result: Concrete - 350 psi; Steel - 1,750 psi</p> <p><b>Coefficient of Linear Thermal Expansion</b>            Method: ASTM C531 (in/in/°F)            Result: 4 x 10<sup>-5</sup></p> <p><b>Crack Bridging (@ -26°C (-15°F) @ 1/8")</b>            Method: ASTM C836            Result: Pass</p> <p><b>Durometer Hardness</b>            Method: ASTM D2240            Result: Shore D-80</p> <p><b>Gardner Impact</b>            Method: ASTM D2794 (1/32" steel panels)            Result: &gt;160 in-lbs, direct and indirect</p> <p><b>Tear Strength</b>            Method: ASTM D624            Result: 210 pli</p> <p><b>Tensile Elongation</b>            Method: ASTM D638            Result: 255%</p> <p><b>Tensile Modulus</b>            Method: ASTM D638            Result: 100% Modulus - 510 psi</p> <p><b>Tensile Strength</b>            Method: ASTM D638            Result: 560 psi</p>		



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**PRODUCT INFORMATION**

RECOMMENDED SYSTEMS	SURFACE PREPARATION																				
<p><b>Concrete, contraction or construction joint:</b>            1 application: EnviroLastic JS80 SL @ 150 linear ft/gal            1/8" x 1" joint</p> <p><b>Concrete, routed joint:</b>            1 application: EnviroLastic JS80 SL @ 123 linear ft/gal            1/4" x 5/8" routed crack</p> <p><b>Concrete, spall repair:</b>            1 application: EnviroLastic JS80 SL @ 1/2 " lifts            3.2 sq ft/gal per lift</p> <p>Always consider the use of an appropriate primer prior to application of EnviroLastic JS80 SL.</p> <p><b>Concrete (low-temp or fast set - all applications):</b>            1 ct. Corobond LT @ 4.0 - 8.0 mils dft            1 application: EnviroLastic JS80 SL as required</p> <p><b>Concrete (normal - all applications):</b>            1 ct. Corobond HS @ 3.0 - 4.0 mils dft            1 application: EnviroLastic JS80 SL as required</p> <p>The systems listed above are representative of the product's use. Other systems may be appropriate.</p>	<p>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.</p> <p>Refer to product Application Bulletin for detailed surface preparation information.</p> <p>Minimum recommended surface preparation:  <b>Concrete &amp; Masonry:</b>            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 03732, CSP 2-3.</p> <tr> <th colspan="2" data-bbox="792 890 1481 932">TINTING</th> </tr> <tr> <td colspan="2" data-bbox="792 936 1481 991">Do not tint.</td> </tr> <tr> <th colspan="2" data-bbox="792 995 1481 1037">APPLICATION CONDITIONS</th> </tr> <tr> <td colspan="2" data-bbox="792 1041 1481 1297"> <p>Temperature:            Material: 60°F minimum, 120°F maximum            Air and surface: -20°F minimum, 120°F maximum            At least 5°F above dew point</p> <p>Relative humidity: 80% maximum</p> <p>Refer to product Application Bulletin for detailed application information.</p> </td> </tr> <tr> <th colspan="2" data-bbox="792 1302 1481 1344">ORDERING INFORMATION</th> </tr> <tr> <td colspan="2" data-bbox="792 1348 1481 1465"> <p>Packaging:            Part A: 5 gallons            Part B: 5 gallons</p> </td> </tr> <tr> <th colspan="2" data-bbox="792 1470 1481 1512">SAFETY PRECAUTIONS</th> </tr> <tr> <td colspan="2" data-bbox="792 1516 1481 1722"> <p>Refer to the MSDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. 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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.</p> </td> </tr>	TINTING		Do not tint.		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**TRM.80A**

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**PART B**                    **B81-4000**

**ISOCYANATE**  
**SERIES**

**APPLICATION BULLETIN**

Revised 5/05

SURFACE PREPARATION	APPLICATION CONDITIONS		
<p>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.</p> <p><b>Poured Concrete</b>  <b>New</b>            For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 2-3. Surface must be clean, dry, sound, and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 73°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 8.0 and 11.0. Allow to dry thoroughly prior to coating.</p> <p><b>Old</b>            Surface preparation is done in much the same manner as new concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, Steel-Seam VSE epoxy filler is recommended to patch and resurface damaged concrete. Fill all cracks, voids and bugholes with Steel-Seam VSE.</p> <p><b>Always follow the standard methods listed below:</b>            ASTM D4258 Standard Practice for Cleaning Concrete.            ASTM D4259 Standard Practice for Abrading Concrete.            ASTM D4260 Standard Practice for Etching Concrete.            ASTM F 1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete            ICRI 03732</p>	<p>Temperature:            Material:                    60°F minimum, 120°F maximum            Air and surface:            -20°F minimum, 120°F maximum                                                  At least 5°F above dew point</p> <p>Relative humidity:            80% maximum</p> <tr> <th colspan="2" data-bbox="829 766 1515 808">APPLICATION EQUIPMENT</th> </tr> <p>The following is a guide. Always purge dispensing equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.</p> <p><b>Reducer</b> ..... Not recommended</p> <p><b>Clean-up</b> ..... Butyl Cellusolve™ (R6K25) or Dowanol PM™</p> <p><b>Plural Component Dual Feed Metering Equipment:</b>            Equipment ..... AST GMP-075 "Big Pro"            Static mixer ..... 1/2" dia, 32 element            Reduction ..... Not recommended</p> <p><b>Plural Component Air Powered Caulk Guns:</b>            Static mixer ..... 1/2" dia, 32 element            Reduction ..... Not recommended</p> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p>	APPLICATION EQUIPMENT	
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APPLICATION PROCEDURES	PERFORMANCE TIPS
<p>Surface preparation must be completed as indicated.</p> <p><b>Mixing Instructions:</b>            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.</p> <p>Install joint filler at the recommended depth and usage rate as indicated below:</p> <p><b>Recommended Usage Rate per gallon: (231 cu in/gallon)</b>            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</p> <p><b>Drying Schedule @1/4" x 1" @ 73°F and 50% RH:</b>            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</p> <p>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</p> <p><b>Pot Life:</b> None</p> <p><b>Sweat-in Time:</b> None</p> <p>Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.</p>	<p>Usage rates are calculated on volume solids and do not include an application loss factor due to variance in width or depth of joint or crack, porosity of the surface, skill and technique of the applicator, method of application, material lost during mixing, spillage, climatic conditions, and excessive film build.</p> <p><b>Do not agitate in air and moisture.</b></p> <p>Use only dual component dispensing equipment capable of dispensing 1:1 volume ratio material.</p> <p>In order to avoid blockage of dispensing equipment, clean equipment before use or before periods of extended downtime with Butyl Cellusolve™ (R6K25), Dowanol PM™, or Propylene Glycol.</p> <p>Fill saw cut contraction joints to full depth (typically 1/4 of the slab thickness T/4). Formed construction joints should be filled a minimum of 1" deep. Silica sand or foam backer rod may be used as a filler for the crack beneath the joint to help prevent material seepage. When using sand or backer rod, maintain minimum required depth for joint filler.</p> <p>To avoid joint failure due to early shrinkage of concrete slabs, follow the recommendations of ACI 302.1 R latest edition. 1996 version states, "It is advisable to defer joint filling and sealing as long as possible to minimize the effects of shrinkage related joint opening on the filler or sealer." 30 days minimum, 60 -90 days preferred.</p> <p>Cold storage and freezer storage rooms should be conditioned at there operating temperatures for a minimum of 7 days prior to joint filling.</p> <p>Consult your Sherwin-Williams representative for specific application and performance recommendations.</p> <p>Refer to Product Information sheet for additional performance characteristics and properties.</p>
CLEAN UP INSTRUCTIONS	SAFETY PRECAUTIONS
<p>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™.</p>	<p>Refer to the MSDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>
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<p>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.</p>	<p>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.</p>