



Protective & Marine Coatings

ENVIROLASTIC® JS80 SL

PART A
PART B

B81V4000
B81-4000

ISOCYANATE
SERIES

Revised: September 17, 2020

PRODUCT INFORMATION

TRM.80

PRODUCT DESCRIPTION

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
- No VOCs and low odor
- Foot traffic in 30 minutes
- Vehicular traffic in 1 hour
- Prevents joint breakdown
- Excellent for spall repair
- 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

Shelf Life:	12 months, unopened Store indoors at 70°F (21°C) to 90°F (32°C).
Flash Point:	>200°F (93°C)
Viscosity (mixed):	450 cps
Reducer:	Not recommended
Clean Up:	Butyl Cellusolve™ (R6K25) or Dowanol PM™

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
- Containment
- 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 ⁻⁵
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



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RECOMMENDED SYSTEMS

Dry Film Thickness / ct.
Mils (Microns)

Concrete, contraction or construction joint:

1 application: EnviroLastic JS80 SL150 linear ft/gal 1/8" x 1" joint

Concrete, routed joint:

1 application: EnviroLastic JS80 SL123 linear ft/gal 1/4" x 5/8" routed crack

Concrete, spall repair:

1 application: EnviroLastic JS80 SL1/2 " lifts 3.2 sq ft/gal per lift

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

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 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:

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.

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

TINTING

Do not tint.

APPLICATION CONDITIONS

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

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:

Part A: 5 gallons (18.9L)

Part B: 5 gallons (18.9L)

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.

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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APPLICATION BULLETIN

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SURFACE PREPARATIONS

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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.

APPLICATION CONDITIONS

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

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.

ReducerNot recommended

Clean-upButyl Cellusolve™ (R6K25) or
Dowanol PM™

Plural Component Dual Feed Metering Equipment:

Equipment.....AST GMP-075 "Big Pro"
Static mixer1/2" dia, 32 element
Reduction.....Not recommended

Plural Component Air Powered Caulk Guns:

Static mixer1/2" dia, 32 element
Reduction.....Not recommended

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

Surface Preparation Standards

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Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
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APPLICATION PROCEDURES

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.

Pot Life:	None
Sweat-in-time:	None

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™.

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PERFORMANCE TIPS

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.

Do not agitate in air and moisture.

Use only dual component dispensing equipment capable of dispensing 1:1 volume ratio material.

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.

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.

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.

Cold storage and freezer storage rooms should be conditioned at there operating temperatures for a minimum of 7 days prior to joint filling.

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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