



PolyVers International  
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# Product Data Sheet

## SL/45

### Joint Sealant

USGBC LEED, EQ Credit 4:  
 Low – emitting VOC Compliant Materials

**Product Description - PolyVers SL/45** is self-leveling, 100% solids, flexible, two-component, rapid curing polyurea elastomer joint sealant material. **SL/45** is designed for 25% movement of installed joint width. Recommended concrete cure 30 days prior to installing joint filler or joint sealant.

**Uses - PolyVers SL/45** is used to fill random cracks, contraction joints, control joints or new construction joints on new or old horizontal concrete surfaces. **SL/45** is ideal for use on elevated parking decks, balcony decks, pedestrian decks and bridge decks where its quick and positive cure will allow rapid turn around and return to use. **SL/45** is highly flexible, retaining full properties and memory capability while allowing normal joint movement and accommodating slab movement where designed movement and thermal cycling will occur.

#### Ideal for Applications In -

- Parking Decks
- Bridge Decks
- Roofing
- Sidewalks
- Balcony Decks
- Industrial Facilities
- Water and Waste Water Treatment

#### Advantages -

- 100% Solids, No VOC's
- Remains Flexible in Cold Temperatures
- Cures From 0°F to 130°F
- Resists jet fuel
- USDA/FSIS/CSA Approved
- CFIA Approved

**Joint Design -** Joints receiving **SL/45** should be designed and prepared according to industry standards. Regard **PolyVers** Technical Manual for typical illustrations. In order to achieve optimum sealant movement characteristics, sealant depth should be ½ the sealant width, but in no case make the depth greater than 1" in any joint configuration.

#### Physical Properties -

Property	Test Method	Typical Value
VOC	ASTM D3960	Zero
Solids Content		100%
Gel Time		<1 minute
Tack Free		~20 minutes
Initial Cure		8 Hours
<b>The following properties are typical after maintaining cured product at 70 – 77°F for seven days:</b>		
Tensile Strength (psi)	ASTM D638	400 – 500
Tensile Elongation (%)	ASTM D638	600 – 750
Elastic Modulus	ASTM D638	115 – 125
Tear Strength (lb/in)	ASTM D624	93 – 125
Shore (A) Hardness	ASTM D2240	≥ 45
Taber abrasion, mg wt loss (1000 g, 1000 revs, H-18)	ASTM D4060	450 - 700

**Limitations - SL/45** should not be used on slopes greater than 3%. Backer Rod (open cell) should be used in all joints with the exception of small random cracks.

**SL/45** is an aromatic based polyurea. Discoloration from exposure to ultraviolet light may occur, however the physical properties are unaffected.

**Coverage Rates -**

Linear Feet: Per Gallon

Inches	1/4	1/2	3/4	1
1/4	308	154	103	72
1/2	154	77	51	38
3/4	103	51	34	26
1	72	38	26	19

Linear Feet: Per 600ML Cartridge

Inches	1/4	1/2	3/4	1
1/4	53	27	18	13
1/2	27	13	9	7
3/4	18	9	6	4
1	13	7	4	3

**Packaging -**

- One Hundred Ten Gallon Kit: 55 gallons of 'A' side and 55 gallons of 'B' side. Drum containers filled by weight, volume is closely approximated.
- Ten Gallon Kit: 5 gallons of 'A' side and 5 gallons of 'B' side.
- Six Hundred ML Cartridge: 300ML of 'A' side and 300ML of 'B' side packaged as a duplex cartridge. Ten cartridges per case.

**Mixing -**

Machine Dispensing: Use 1:1 ratio pump, with or without heater through a static mixing wand.

**Colors -** Standard color is charcoal gray, light gray, or black. Other colors available upon request. Consult **PolyVers**.

**Shelf Life -** One year, in original, unopened factory containers, under normal storage conditions of 55°F to 95°F.

**Clean Up -** Cured product may be disposed of without restriction. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are "drip free" may be disposed of according to local, state and federal laws.

**Safety -** Review Material Safety Data @polyvers.com

Basic safety for personal protection is:

- Long-sleeve overalls or disposable Tyvex overalls
- Rubber gloves
- Splash shield or safety glasses with splash guards
- Rubber or leather boots
- Do not use near high heat or open flame
- Do not take internally
- Keep out of the reach of children

**Preparation and Installation -** Regard **PolyVers** specification: **Polyurea Joint Sealant** for detailed preparation and installation procedures.

**Technical Services - Sales and Customer Support (913) 321-9000**

**Warranty – PolyVers International** will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the Company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.