



PolyVers International
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Product Data Sheet

SL/45 Joint Sealant & Spray Polyurea

Product Description- *PolyVers SL/45* is a self-leveling, 100% solids, flexible, two component, rapid curing polyurea elastomer joint sealant material and low temperature, low pressure spray material. Designed for 25% movement of installed joint width. Recommended maximum joint opening 3/4 inch. Recommended time of cure of concrete minimum 30 days prior to installing joint filler or joint sealant.

Uses- *PolyVers SL/45* is used to fill exterior 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, bridge decks, and on-grade slabs 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, Meets VOC Regulations
- Flexible, 1000% Elongation
- Remains Flexible in Cold Temperatures
- Return Project to Service in 2 Hours
- Cures From 0°F to 130°F
- Odorless, No Toxic Vapors
- Resists jet fuel

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 1/2 sealant width, but in no case greater than 1 inch in any joint configuration.

Physical Properties-

Cured Sealant Properties	Test Method	Typical Value
Solids Content		100%
Shore Hardness	ASTM D2240	40-45A
Elongation	ASTM D412	850-1000%
Tensile Strength, psi	ASTM D412	265
100% Modulus, psi	ASTM D412	65
200% Modulus, psi	ASTM D412	120
Tear Strength, pli, Die C	ASTM D624	59
Taber abrasion, mg wt loss (1000 gms, 1000 revs, H-18 wheels)	ASTM D4060	920
Pot Life		3-4 Minutes
Tack Free		15 Minutes
Initial Cure		2 Hours
Final Cure		7 Days

Chemical Resistance-

*Recommended * Recommended Conditionally (washdown within 1 hour of spillage) *Not Recommended *Suitable for immersion and/or splash and spillage conditions *Suitable for occasional or intermittent contact for up to 72 hours Test Procedure: ASTM D3912 25°C Exceeds 1 Year	R	Test Procedure: ASTM D1308 25°C Exceeds 1 Year	
Test Media		Test Media	
Acetic Acid 10%	C	Acetone	C
Ammonium Hydroxide 10%/20	R	Antifreeze	R
Diesel Fuel	R	Benzene	R
Gasoline	R	Benzoic Acid	R
Hydraulic Fluid	R	Butyl Alcohol	R
Hydrochloric Acid 5%/10%	R	Butyl Cellosolve	R
Methanol	R	Carbon Dioxide	R
Motor Oil	R	Calcium Hypochlorite	N
MTBE	1	Chlorine (5000 ppm in water)	2
MTBE/Gasoline 5%	R	Citric Acid	R
NaCl/Water 10%	R	Cylohexanol	R
Phosphoric Acid 10%	R	Dichloacetic Acid	C
Potassium Hydroxide 10%/20%	R	Dimethyl Formamide	N
Sodium Hydroxide 10%/20%/50%	R	Ethanol	2
Sugar/Water 10%	R	Ethylene Glycol	1
Sulfuric Acid 5%/10%	R	Gasoline	R
Skydrol	2	Hexane	R
Toluene	C	Hydraulic Oil	R
Water	R	Lactic Acid 10%	1
2-Methylbutane	R	Methylene Chloride	C
		Methyl Ethyl Ketone	C
		Methanol	R
		Mineral Spirits	R
		Monobutyl Ether	R
		Nitric Acid 20%	C
		Phenol	2
		Skydrol	2
		Sodium Bicarbonate	R
		Sodium Chloride	R
		Sodium Hydroxide 50%	R
		Sodium Hypochlorite 10%	2
		Stearic Acid	R
		Sulfuric Acid 70%	N
		Trichloroethylene	C
		Trisodium Phosphate	R
		Toluene	C
		Vinegar	R
		Xylene	C

Exposure to UV will cause discoloration, no change in physical properties

Limitations- SL/45 should not be used on slopes greater than 3%. Backer Rod 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 approximate.
- 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. For information contact **PolyVers** or your local dealer.

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- Read Material Safety Data Sheets provided with all shipments. Additional copies are available upon request from **PolyVers** or your local dealer.

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

Technical Services-Sales and Customer Support (800) 870-8842

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.