

### 1. Product Information

#### Description

JS-45 is a self-leveling, 100% solids, two-component modified polyurea-based elastomeric joint sealant. JS-45 is a flexible material that is designed for 25% movement of an installed joint width. A minimum of 28 days is recommended for concrete to effectively cure prior to installing joint filler or joint sealant.

#### Features

- Exceptional elongation
- Remains flexible in cold temperatures
- 100% Solids
- No VOCs
- No toxic vapor, odorless
- Cures from -20°F to 130°F
- Resists jet fuel
- Meets USDA/FSIS standards

#### Limitations

JS-45 is not recommended for use under non-resilient or polymer flooring systems. **Contact The Polyurea Company for additional information.** Do not use on slopes greater than 15%. With the exception of small random cracks, backer rod (open cell) should be used in all joints. Be aware that discoloration from exposure to ultraviolet light can occur, but physical properties will remain unaffected.

### 2. Product Use

JS-45 is designed to seal cracks, contraction joints, and control joints on new or old horizontal concrete surfaces. It can be applied on slabs where rapid turn around and return to use is needed because of how quickly the product cures. JS-45's memory capability allows for normal joint movement and accommodates slab movement where designed movement and thermal cycling will occur.

NOTE: Joints should be designed and prepared according to industry standards when using JS-45. In order to achieve optimum movement, sealant depth should be ½ the sealant width—under no circumstances should the depth be greater than 1 inch in any joint configuration.

#### Applications

- Industrial facilities
- Sidewalks
- Roofing
- Parking decks
- Bridge decks
- Balcony decks
- Water and waste water treatment

### Coverage Rates

Linear Feet Per Gallon				
	¼"	½"	¾"	1"
¼"	249	138	92	64
½"	138	69	45	34
¾"	92	45	30	23
1"	64	34	23	17

*The above figures are estimated coverage rates and can vary on the substrate condition and texture.*

#### Mixing

Machine dispensing: Use a 1:1 ratio pump with or without heater as required for individual application. Contact The Polyurea Company for more support.

### 3. Physical Properties

Mix Ratio by Volume	1:1
Gel Time (Minutes)	2-3
Tack-Free Time (Minutes)	<5
VOC Content	0
Solids Content	100
Shore A Hardness <i>ASTM D2240</i>	43-45
Shore D Hardness, <i>ASTM D2240</i>	-
Elongation, <i>ASTM D638, Type IV</i>	350-500
Tensile Strength (PSI), <i>ASTM D638, Type IV</i>	250-380
Tear Strength (lb./in.), <i>ASTM D624, Die C</i>	75-85
Taber Abrasion, <i>ASTM D4060 (H-18 Wheel, 1000 Cycles)</i>	20-75

*The values stated in this technical data sheet are produced under controlled laboratory conditions.*

### 4. Preparation and Installation

Performance and adhesion are directly related to preparation. Prior to installation the joint sidewalls must be freshly abraded with a clean-out saw equipment with a diamond blade and then vacuumed clean to exposing clean, dust free edges to maximize adhesion. For rough or broom finished concrete it is recommended to avoid overfilling the joint as shaving could be difficult. For smooth non-densified concrete, a stain prevention product / method should be considered to prevent etching.

Material Installation Temperature: 70°F or greater  
Exposure Temperature: -40°F to 200°F

### 5. Colors

Please contact The Polyurea Company for more information.



# JS-45

Self Levelling Polyurea Joint Sealant

## Technical Data Sheet

### 6. Packaging

#### 10 Gallon Kit

5 Gallon Part-A (Isocyanate) and 5 Gallon Part-B (Resin)

#### 106 Gallon Kit

53 Gallon Part-A (Isocyanate) and 53 Gallon Part-B (Resin)

Products are packaged by weight, so final package volume is a close estimation.

### 7. Shelf Life

A properly stored product in original, unopened factory containers, kept at a temperature above freezing should have a shelf life of 12 months from the date of shipment. Proper storage temperature is 60°F to 110°F (16°C to 45°C).

### 8. Safety

For in-depth information on product safety and precautions, please review the product SDS sheets. Prior to using the product, ensure that you have the proper personal protection equipment (PPE) available. This includes but is not limited to the following items:

- Safety Glasses with a splash shield
- Minimum Organic Cartridge Respirator
- Rubber or Nitrile Gloves
- Disposable or Reusable Long Sleeve Overalls
- Rubber or leather boots

Always be sure to follow the precautions listed below when using the material:

- Do Not use near high heat or open flame
- Do Not take internally
- Keep out of reach of children

### 9. Maintenance

No Information Provided

### 10. Clean-Up / Disposal

Excess material can be mixed together at the proper ratio and disposed of without restriction once cured. Product containers may be disposed of according to local, state and federal laws.

### 11. Warranty

At its sole election, The Polyurea Company will refund the price of or replace product it finds to be defective provided the product has been used properly and installed by a certified The Polyurea Company applicator. 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, express 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, loss of use, indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.

### 12. Technical Support

For technical support, please you may send an email to [support@thepolyureacompany.com](mailto:support@thepolyureacompany.com).

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