

1. Product Information

Description

JF-90 is a self-leveling, 100% solids, semi-rigid, two component, rapid curing modified polyurea semi rigid joint filler. May be applied in temperatures down to -40°F. Provides additional protection from spalling of joint edges/shoulders where heavy, hard wheel fork lift traffic are required. Ideal for industrial and warehouse applications where epoxy joint fillers would also be specified. Recommended time of concrete cure a minimum of 28 days prior to installing joint filler.

Features

- 100% solids, no VOC's
- Remains flexible in cold temperatures
- Return project to service in 60 minutes
- Cures from -40°F to 130°F
- Odorless, No toxic vapor
- USDA/FSIS approved
- Resists jet fuel
- Pick proof

Limitations

JF-90 should not be used to fill exterior cracks, control joints, or construction joints if deck or slab movement from thermal cycling is expected. See The Polyurea Company specification: Cold/Freezer Applications. Not recommended for use under non-breathing, resilient, or polymer flooring systems. Refer to Technical Bulletin for details. JF-90 is an aromatic based polyurea. Discoloration from exposure to ultraviolet light may occur, however the physical properties are unaffected.

2. Product Use

Applications

- Polished Concrete
- Cold Storage Facilities
- Food Processing Facilities
- Grocery / Retail Stores
- Airport Terminals
- Traffic Loops
- Light Industrial Facilities

Coverage Rates

Linear Feet Per Gallon				
	1/4"	1/2"	3/4"	1"
1/4"	249	138	92	64
1/2"	138	69	45	34
3/4"	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 (Seconds)	90
Tack-Free Time (Minutes)	2-3
VOC Content	0
Solids Content	100
Shore A Hardness ASTM D2240	90 - 95
Shore D Hardness, ASTM D2240	-
Elongation, ASTM D638, Type IV	350 - 550
Tensile Strength (PSI), ASTM D638, Type IV	1200-1400
Tear Strength (lb./in.), ASTM D624, Die C	200-300
Taber Abrasion, ASTM D4060 (H-18 Wheel, 1000 Cycles)	400-500

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.

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.



JF-90

Semi-Rigid Polyurea Joint Filler

Technical Data Sheet

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.

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