

JF-90

Aromatic Fast-Set Modified Polyurea Spray System



LEED® EQ Credit 4.1: Low Emitting Materials: Adhesives & Sealants

PRODUCT DESCRIPTION

JF-90 is a self-leveling, 100% solids, aromatic two-component polyurea joint filler. **JF-90** is semi-rigid—it is similar to epoxy joint fillers in that it has low-range adhesion strength, which allows for separation during the shrinkage process of concrete. A minimum of 28 days is recommended for concrete to effectively cure prior to installing joint filler. **JF-90** offers additional protection from spalling on edges and corners, which often result from heavy, hard-wheel traffic.

FEATURES

- Remains flexible in cold temperatures
- 100% Solids
- No VOCs
- No toxic vapor, odorless
- Cures from -40°F to 130°F
- Resists jet fuel
- USDA/FSIS approved
- Pick proof

LIMITATIONS

Do not use **JF-90** to fill exterior cracks, construction joints, or control joints if slab or deck movement from thermal cycling is expected. This product is not recommended for use under non-breathing, resilient, or polymer flooring systems. **JF-90** is an aromatic-based polyurea. Exposure to ultraviolet light may cause discoloration; however, the physical properties remain unaffected.

APPLICATIONS

- Repairing cracks and spalls in traffic areas
- Below grade repairs
- Parking deck repairs
- Spalled control joints
- Fill pop-outs on horizontal spaces
- Interior spaces
- Polished concrete floors
- Freezer applications

PHYSICAL PROPERTIES

| | |
|--|-----------|
| Mix Ratio: | 1:1 |
| Tack-Free Time (minutes): | 2-3 |
| Pot Life: <i>ASTM D1640</i> | 3-4 min |
| Open to Foot Traffic: <i>ASTM D1640</i> | 60 min |
| VOC: | 0 |
| Shore A Hardness: <i>ASTM D2240</i> | 90-95 |
| Shore D Hardness: <i>ASTM D2240</i> | 35-45 |
| Elongation: <i>ASTM D638</i> | 250-550 |
| Tensile Strength (PSI): <i>ASTM D638</i> | 1200-1400 |
| Tear Strength (lb/in.): <i>ASTM D624</i> | 200-300 |
| Adhesion to Concrete: <i>ASTM D4541</i> | 300-400 |
| Taber Abrasion: (1000, 1000 revs. H-18) <i>ASTM D4060</i> | 400-500 |

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

MIXING

Machine dispensing: Use a 1:1 ratio pump with or without heater as required for individual application.

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 |

| Linear Feet Per 600ml | | | | |
|-----------------------|------|------|------|----|
| | 1/4" | 1/2" | 3/4" | 1" |
| 1/4" | 32 | 24 | 16 | 11 |
| 1/2" | 24 | 11 | 8 | 6 |
| 3/4" | 16 | 8 | 5 | 3 |
| 1" | 11 | 6 | 3 | 2 |

The above figures are estimated coverage rates and can vary on the joint conditions. The above numbers a lot for 10% material waste due to overfilling.

COLORS

Please consult the SealSource International JF/JS Series Color Chart

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

600 ml Cartridge

300ml Part-A (Isocyanate) and 300ml Part-B (Resin), packaged as a dual-tube cartridge. Cartridges sold in cases of 4 or 10.

10 Gallon Kit

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

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.

PREPARATION & INSTALLATION

Coating performance and adhesion are directly related to surface preparation. Prior to installation, the joint sidewalls must be freshly abraded with a clean-out saw with diamond blade and then vacuumed clean to expose 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

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 Coatings Respirator
- Rubber or Nitrile Gloves
- Disposable or Reusable Long Sleeve Overalls
- Rubber or leather boots

Always follow these precautions:

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

CLEAN UP/ DISPOSAL

There are no restrictions when disposing of cured product. If there's excess liquid, Parts A & B should be mixed first, cured, and then disposed of. Drip-free containers should be disposed of according to local, state, and federal laws.

WARRANTY

SealSource® International LLC, 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.

TECHNICAL SUPPORT

For technical support, please call 801-224-3800 Monday to Friday between the hours of 8am – 5pm MST. You may also send an email anytime to technicalsupport@sealsource.com.