



Five Star® PF-60

Rapid Surface Repair

PRODUCT DESCRIPTION

Five Star® PF-60 is a unique, low viscosity, two-part liquid, polyurethane-hybrid polymer. When supplemented with aggregates, this product is used to repair and rehabilitate concrete and asphaltic concrete pavements. The enhanced polymer is high performance, rapid setting, and can be used to make a resilient polymer concrete. Within minutes of placement, durable, long-lasting repairs are able to handle vibration, heavy traffic, and thermal movement.

ADVANTAGES

- No priming required to bond to concrete, asphalt, steel or wood
- Waterproof, chemically resistant membrane protects substrates from freeze-thaw spalling. Stops further corrosion of reinforcing steel
- Liquid becomes solid (cures) in as little as 60 seconds. Traffic Ready in as little as 10 minutes*.
- No toxic fumes during application. Low odor.
- Make repairs, resurface pavements, and apply protective coating year round - hot or cold.

USES

- Expansion joint and bridge header reconstruction
- Control joint filler
- Repair cracks, potholes, spalls
- Resurface walkways, floors & bridge deck overlays

PACKAGING AND YIELD

Five Star® PF-60 is packaged in:

- 10 gal. (37.9 L) kits: 5 gal. (18.9 L) "A" & 5 gal. (18.9 L) "B"
- 30 gal. (113.5 L) kits: 15 gal. (56.7 L) "A" & 15 gal. (56.7 L) "B"
- 108 gal. (408.8 L) kits: 54 gal. (204.4 L) "A" & 54 (204.4 L) gal. "B"

Approximate yield of 25 square feet per gallon at 1/16 inch (1.6 mm).

SHELF LIFE

One year in original unopened packaging when stored in dry conditions; high relative humidity and temperature will reduce shelf life.

**10-minute traffic ready for catalyzed machine applied version. Traffic time dependent upon air and substrate temperature.*

TYPICAL PROPERTIES AT 70°F (21°C)

Mix Ratio	(1) Part A : (1) Part B
Viscosity @ 73°F	Part A: 80 cps / Part B: 100 cps
Specific Gravity	Part A: 1.07 / Part B: 0.95
Cured	
Color	Black
Specific Gravity, ASTM D-792	1.08
Hardness, Durometer D, ASTM D-2240	60
Tensile Strength, ASTM D-412	2,000 psi
Compressive Strength, ASTM C-39	1,500 psi
Elongation at Break, ASTM D-412	160%
Bond Strength, ASTM C-882	760 psi

The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown may result. Test methods are modified where applicable.

PLACEMENT GUIDELINES

SURFACE PREPARATION

1. Prepare concrete surfaces to a minimum Concrete Surface Profile (CSP) 4 to 5 in accordance with ICRI Technical Standard 310.1R (International Concrete Repair Institute) guidelines. As an alternative, roughen concrete surfaces to coarse aggregate exposure. Blow out all repair areas thoroughly with oil free compressed air, removing all dust, debris and bond inhibiting substances. Vertical saw-cut surfaces should be sandblasted.
2. All surfaces must be visibly dry prior to placement. Use a heat source to ensure dry substrate prior to placement.
3. For optimum performance, liquid components should be conditioned to between 70-90°F (21-32°C) prior to use. Aggregate should be heated to a minimum 90°F (32°C) and a maximum 140°F (60°C).
4. Fill or mitigate all substrate cracks prior to repair material replacement.
5. All repair geometries shall be squared up and have neat, clean edges.

MIXING: NOTE: Mix ratio is 1:1 by volume. Material may be mixed through a self-dispensing injection unit such as plural component dispensing/mixing equipment. For machine installed product refer to your operator's manual and/or consult Five Star Products' Engineering and Technical Service Center at 1-800-243-2206 for specifics.

HAND MIX INSTRUCTIONS: Five Star® Rapid Surface Repair PF-60 may also be used for small repairs. Measure exactly equal amounts by volume of components A & B. Mix together for 30 seconds. Remember, as material quantities increase, heat generated by the product increases and the pot life of mixed product will decrease respectively. Pour product immediately.

APPLICATION

1. Repair areas should have aggregate pre-placed at thicknesses 1 to 4 inches per lift.
2. Immediately pour mixed liquids through pre-placed aggregate. Placement must be continuous to prevent cold joints. Continue pouring liquids through aggregate until liquids can be seen on top surfaces of aggregate and aggregate no longer accepts liquids. For multiple lifts, pre-place additional aggregate immediately, spread and level and continue pouring liquids through the next layer of aggregate. Repeat as necessary depending upon thickness of repair.
3. A topping sand or similar may be broadcast on top for skid resistant surfaces. Remove excess once material hardens.

NOTE: PRIOR TO APPLICATION, READ ALL PRODUCT PACKAGING THOROUGHLY. For more detailed placement procedures, refer to Five Star® Design-A-Spec™ installation guidelines or call Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.

CLEAN-UP: Clean tools immediately after use with xylene or MEK.

CONSIDERATIONS

- Product should be stored at 60 - 80°F (15 - 27°C), and conditioned ideally to 70 - 90°F (21 - 32°C) prior to installation.
- Product may be installed between 40 - 110°F (4 - 43°C). For temperatures above or below these limits please consult Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.
- Minimum substrate temperature 40°F (4°C) and rising with conditioned materials.
- Colder temps will reduce strength gain and time to traffic.
- Keep material out of sun or hot areas prior to applying, as this may cause working time to be diminished and could cause poor appearance and/or adhesion.

CAUTION

This product may cause skin and eye irritation. Do not inhale vapors. Provide adequate ventilation. Protect against contact with skin and eyes. Wear rubber gloves, long sleeve shirt, goggles with side shields. In case of contact with eyes, flush repeatedly with water and contact a physician. Areas of skin contact should be promptly washed with soap and water. Do not take internally. Keep product out of reach of children. **PRIOR TO USE, REFER TO SAFETY DATA SHEET.**

For worldwide availability, additional product information and technical support, contact your local Five Star® distributor, local sales representative, or call Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.

SKU / PRODUCT CODE	DESCRIPTION	# UNITS/PALLET	UNIT SIZE
30912	Five Star® Rapid Surface Repair PF-60 KIT (PART A & B)	36 (18 kits)	Resin (A): 5 gal. (18.9 L) Hardener (B): 5 gal. (18.9 L)
30911	Five Star® Rapid Surface Repair PF-60 KIT (PART A & B)	6 (3 kits)	Resin (A): 15 gal. (56.7 L) Hardener (B): 15 gal. (56.7 L)
30850	Five Star® Rapid Surface Repair PF-60 KIT (PART A & B)	2 (2 kits)	Resin (A): 54 gal. (204.4 L) Hardener (B): 54 gal. (204.4 L)
30846	Fast-Start Catalyst	N/A	4 oz. (113.4 g)

WARRANTY: FIVE STAR PRODUCTS, INC. (FSP) PRODUCTS ARE MANUFACTURED TO BE FREE OF MANUFACTURING DEFECTS AND TO MEET FSP'S CURRENT PUBLISHED PHYSICAL PROPERTIES WHEN APPLIED IN ACCORDANCE WITH FSP'S DIRECTIONS AND TESTED IN ACCORDANCE WITH ASTM AND FSP STANDARDS. HOWEVER, SHOULD THERE BE DEFECTS OF MANUFACTURING OF ANY KIND, THE SOLE RIGHT OF THE USER WILL BE TO RETURN ALL MATERIALS ALLEGED TO BE DEFECTIVE, FREIGHT PREPAID TO FSP, FOR REPLACEMENT. THERE ARE NO OTHER WARRANTIES BY FSP OF ANY NATURE WHATSOEVER, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH THIS PRODUCT. FSP SHALL NOT BE LIABLE FOR DAMAGES OF ANY SORT, INCLUDING PUNITIVE, ACTUAL, REMOTE, OR CONSEQUENTIAL DAMAGES, RESULTING FROM ANY CLAIMS OF BREACH OF CONTRACT, BREACH OF ANY WARRANTY, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR FROM ANY OTHER CAUSE WHATSOEVER. FSP SHALL ALSO NOT BE RESPONSIBLE FOR USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT HELD BY OTHERS."

Five Star Products, Inc.
Corporate Headquarters
60 Parrott Drive
Shelton, CT 06484 USA
Tel: +1 203-336-7900 • Fax: +1 203-336-7930
FiveStarProducts.com

Specifications Subject to Change.
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