



Five Star® R-60

Rapid Surface Repair

PRODUCT DESCRIPTION

Five Star® R-60 is an ultra low viscosity concrete healer and penetrating crack sealer. This unique polyurethane-hybrid polymer restores concrete strength by penetrating deep into concrete pavements and re-bonding cracks. Five Star® R-60 seals concrete to reduce freeze-thaw spalling, as well as protect from further chemical attack and is traffic ready in as little as 10 minutes.

ADVANTAGES

- No priming required to bond to concrete, asphalt, steel or wood
- Penetrates, seals cracks, and protects substrates from freeze-thaw spalling. Stops further corrosion of reinforcing steel.
- Solidifies in as little as 2-5 minutes, penetrating narrowest cracks. Traffic Ready in as little as 10 minutes*.
- No toxic fumes during application.
- Make repairs, resurface pavements, and apply protective coating year round - hot or cold.

USES

- Repair cracks, potholes, spalls
- Deck sealer/crack healer on PCC pavement
- Primer for epoxies and urethane resurfacers
- Creates non-skid and traction surfaces
- Anchoring adhesive

PACKAGING AND YIELD

Five Star® R-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"

Yield 7.4 gallons per cubic foot used neat. Yield per gallon increases proportionally with aggregate use.

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: 12 cps / Part B: 16 cps
Specific Gravity	Part A: 1.11 / Part B: 1.03
Cured	
Color	Black
Specific Gravity, ASTM D-792	1.06
Hardness, Durometer D, ASTM D-2240	65
Tensile Strength, ASTM D-412	4,500 psi
Compressive Strength, ASTM C-39	3,000 psi
Elongation at Break, ASTM D-412	<10%
Bond Strength, ASTM C-882	1,500 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 surface to a minimum CSP-4 (Concrete Surface Profile per ICRI Technical Standard 03732) profile by removing all surface contaminants, including sealers, oils, or other bond inhibiting substances via chipping or similar mechanical method.
2. For overlays, cut keyway channel (groove) using concrete saw equipped with dry cut diamond blade around perimeter of area to be resurfaced. Keyway channel (groove) depth shall be a minimum of ½ inch (12.7 mm) depth. Surfaces adjacent to a vertical plane (such as curbs, walls, tanks, etc.) shall have keyway channels cut approximately 4 – 6 inches (101.6 - 152.3 mm) back from vertical plane towards the interior of area to be resurfaced. Keyway channel shall be ½ inch (12.7 mm) deep by ½ inch (12.7 mm) wide.
3. For overlays, chip 2 inch (50.8 mm) wide taper back from interior edge of keyway channel at all termination edges (ie: drains, doors etc.). Using bush hammer or chipping gun equipped with a 1 – 2 inch (24.4 - 50.8 mm) wide spade blade, chip a 2 inch (50.8 mm) wide taper back from edge of interior keyway channel (groove) inward towards the area being resurfaced. Taper shall match depth of keyway channel at its deepest point, which is the edge of the keyway, and taper out to 0 inches at its most shallow point, 2 inches (50.8 mm) towards the interior of the area to be resurfaced.
4. Vacuum surface free of all dust and dirt.
5. Surfaces must be completely dry and free of moisture prior to installation.

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 R-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.

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 50°F - 80°F (10°C - 27°C).
- Product may be installed between 40°F - 110°F (4°C - 43°C). For temperatures above or below these limits please consult Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.
- 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
30914	Five Star® R-60 KIT (PART A & B)	36 (18 kits)	Resin (A): 5 gal (18.9 L) Hardener (B): 5 gal (18.9 L)
30913	Five Star® R-60 KIT (PART A & B)	6 (3 kits)	Resin (A): 15 gal (56.8 L) Hardener (B): 15 gal (56.8 L)
30853	Five Star® R-60 KIT (PART A & B)	4 (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)

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