



MP EPOXY PATCH

Multi-Purpose, High-Strength, Non-Shrink,
Epoxy Patching Mortar

PRODUCT DESCRIPTION

Five Star® MP Epoxy Patch is a three-component, 100% solids, multi-purpose, high-strength, non-shrink epoxy patching mortar for the repair of floors, decks, trenches and ramps. Five Star® MP Epoxy Patch is specifically engineered to provide superior patching while demonstrating similar physical characteristics to the concrete substrate.

ADVANTAGES

- Chemically bonds to concrete
- Excellent workability— withstands freeze / thaw cycles
- High tensile, compressive and early strengths
- Semi-rigid for shock absorption
- User-friendly
- Low modulus
- Compatible with Type III epoxy overlays
- Provides textured bonding profile

USES

- Concrete repair on industrial floors, bridge and parking decks, columns, and structural beams
- Repair of spalled areas
- Quick maintenance and repair in plants and manufacturing facilities

PACKAGING AND YIELD

Five Star® MP Epoxy Patch is a three-component system packaged in pre-measured containers and is available in a unit yielding of approximately 0.5 cubic feet (14.1 liters).

SHELF LIFE

Two years in original unopened packaging when stored in dry conditions; high relative humidity will reduce shelf life. Store in dry conditions between 40°F and 95°F (5°C and 35°C).

TYPICAL PROPERTIES AT 70°F (21°C)

Compressive Strength, ASTM C 579 B*

1 Day 6,000 psi (41.3 MPa)

7 Days 6,500 psi (44.9 MPa)

Tensile Strength, ASTM C 307

1,300 psi (8.9 MPa)

Bond Strength, ASTM C 882

1,800 psi (12.4 MPa)

Flexural Yield Strength, ASTM D 790

2,500 psi (17.2 MPa)

Shrinkage, ASTM C 883

Pass

Thermal Compatibility, ASTM C 884

Pass

Working Time at 70°F (21°C)

25 minutes

**Materials tested per ASTM C 579 B. Rate of loading 0.25 inches per minute. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result. Test methods are modified where applicable.*

PLACEMENT GUIDELINES

- SURFACE PREPARATION:** Minimum substrate temperature should be 40°F (5°C) at time of placement. Concrete must be clean, sound, roughened, and completely dry to ensure a good bond. A perimeter edge and minimum depth of ½ inch should be provided for a durable repair. All exposed reinforcing steel should be blasted to an oxidation free condition removing all contaminants. Vacuum or blow out repair area with oil free compressed air prior to placement to remove all dust and loose particles.
- MIXING:** For optimum performance, all components of the Five Star® MP Epoxy Patch should be conditioned to between 65°F and 85°F (18°C and 29°C) prior to use. Pre-mix each liquid component thoroughly. Pour Components A (resin) and B (hardener) into pail and mix thoroughly for 3 minutes with a slow speed drill and paddle mixer (300 rpm) until material is of uniform consistency. Keep mixer at bottom of pail to avoid introducing air. Slowly add Component C (aggregate) to mixed liquid components. Mix thoroughly until all aggregate is wet. Working (gel) time is approximately 25 minutes when temperatures are at 70°F (21°C).
- METHODS OF PLACEMENT:** Immediately pour Five Star® MP Epoxy Patch into repair area. Float or trowel to desired level. For more detailed placement instructions call Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.
- CLEAN UP:** Equipment — Uncured material can be removed with a suitable solvent. Cured material can only be removed mechanically. Material — Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state, and federal disposal regulations.

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.

CONSIDERATIONS

- Minimum substrate temperature is 40°F (5°C).
- Minimum age of hardened concrete for bonding should be between 5 and 7 days.

CAUTION

Component A is an irritant, and toxic. Component B is corrosive. This product causes skin irritation and is a strong sensitizer. Do not inhale vapors. Provide adequate ventilation. Protect against contact with skin and eyes. Wear rubber gloves, long sleeve shirt, goggles with side shields. Use of a NIOSH/MSHA organic vapor respirator is recommended if ventilation is inadequate. In case of contact with eyes, flush with water for at least 15 minutes and contact a physician immediately. 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
30820	Five Star® MP Epoxy Patch	60 (Packaged on 2 pallets)	Resin (A): 4.88 lbs. (2.2 kg.) Hardener (B): 4.04 lbs. (1.8 kg.) Aggregate (C): 50 lb. (22.7 kg.) bag

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