



## **Crack Repair SLV**

Low Viscosity Polyurethane Crack Repair  
for Horizontal Surfaces

### **PRODUCT DESCRIPTION**

Five Star® Crack Repair SLV is a very low viscosity, two-component hybrid polyurethane specifically engineered for use as an easy to apply, rapid curing concrete repair material. Its low viscosity offers deep penetration into hairline cracks for structural repair and the addition of aggregate allows for very fast turnaround spall and joint repairs.

### **ADVANTAGES**

- Very low viscosity
- Can be used in temperatures from 0°F to 115°F (-18°C to 46°C)
- Fast turnaround
- Traffic ready in 1 hour
- Self-leveling
- Solvent free / No VOC content

### **USES**

- Industrial floor repair
- Spall repair when mixed with aggregate
- Requires minimal downtime
- Fill hairline cracks
- Interior and exterior application with minimal color change
- Provides continuous surface for weight loading

### **PACKAGING**

Five Star® Crack Repair SLV is a two component, 1:1 system consisting of side by side A & B cartridges dispensed through a static mixing nozzle. It is available in a 21.2 oz. unit (627 ml) that yields approximately 38.25 in<sup>3</sup>.

### **SHELF LIFE**

One year shelf life if in original, unopened packaging when stored under dry conditions: Store Between 40°F and 90°F (4°C to 32°C).

#### **TYPICAL PROPERTIES AT 77°F (25°C)**

##### **Compressive Strength, ASTM D 695**

1 Hour	4,500 psi (31.0 MPa)
24 Hours	5,000 psi (34.4 MPa)

**Tensile Strength, ASTM D 638** 3,800 psi (26.2 MPa)

**Elongation, ASTM D 638** 16.7%

**Shore D Hardness, ASTM D 2240** 70

**Viscosity (mixed)** 60 cps

**Bond Strength, ASTM C 882** 1,800 psi (12.41 MPa)

**Gel Time (60 gm sample)** 2-3 Minutes

**Cure Time (shave & reopen to traffic)** 1 Hour

**Volatile Organic Compounds** 0 lbs/gal (0 kg/l)

**Tack-Free Time** 12 minutes

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

## PLACEMENT GUIDELINES

- 1. PREPARATION:** Prepare crack or spall prior to starting a cartridge. Substrate and environment must be completely dry without any presence of moisture. It is not necessary to open or widen a crack unless you suspect it is very deep and want to insert backer rod to control loss of product deep into the crack. The crack should be dry and clean from any grease, wax, oil or other contaminants. Use a wire brush to remove any loose concrete or dirt and then blow away or vacuum dust. Prepare spall with a dry diamond blade or tuck point blade may be used to prepare the spall and create a clean surface for bonding. A wire brush or twisted wire wheel may be used to remove any loose concrete or dirt. The edges must be a 90° angle to the surface to avoid a feathered edge. Using compressed air or vacuum, blow out or remove all dust, dirt, debris, oil and any other contaminate from the crack. Minimum spall depth should be ½" (12.7 mm).
- 2. CARTRIDGE SET UP & USAGE:** Shake the cartridge vigorously for 10 seconds, then stand cartridge upright for at least 1 minute allowing any bubbles to rise to the top. Insert cartridge into dispenser and keep upright. Remove the plastic cap and plug from the top of the cartridge. **IMPORTANT:** Before attaching nozzle, balance the cartridge by slowly dispensing a small amount of material into a disposable container until both materials flow evenly from cartridge. Install flow control and mixing nozzle onto cartridge. Continue to point the nozzle straight up and slowly apply pressure to dispenser moving any bubbles and product up through the nozzle until it reaches the tip. Dispense this first full stroke of material into a disposable container. Schedule dispensing to consume an entire cartridge at one time with no interruption of flow. If you have any problems in dispensing product, replace the nozzle. The product may have begun to cure in the nozzle which will affect the mix ratio. Never transfer a nozzle to another cartridge.
- 3. CLEAN UP:** All equipment should be cleaned as quickly as possible by rinsing with a solvent such as xylene, toluene, MEK or WD-40.

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

## CONSIDERATIONS

- Flowability and strength gain are adversely affected by lower temperatures.
- To obtain bond, concrete shall be visibly free of surface moisture.
- Do not exceed recommended placement volumes or depths in a single pour. For installation assistance contact the Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.
- Do not add solvents to increase flowability.
- For continuous operating temperatures exceeding 250°F (120°C), contact the Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.
- Construction practices dictate concrete foundation should achieve its design strength before grouting.

## CAUTION

Irritant, toxic, strong sensitizer. This product may cause skin 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 and appropriate respiratory protection in case of contact with eyes, flush repeatedly with water 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 MATERIAL SAFETY DATA SHEET.**

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

SKU / PRODUCT CODE	DESCRIPTION	UNIT SIZE
30792	Five Star® Crack Repair SLV	21.2 oz. (627 ml)

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