



# **CONTROL JOINT SEALER**

Flexible Epoxy Joint Sealer

## **PRODUCT DESCRIPTION**

Five Star® Control Joint Sealer is a semi-rigid, moisture insensitive, self-leveling epoxy joint filler and sealer for filling horizontal control joints. It meets ASTM C881 Grade 2, Classes B & C and complies with USDA specifications for use in food processing areas.

## **ADVANTAGES**

- Low modulus
- Impact resistant
- Convenient 1:1 mixing ratio
- Moisture insensitive
- Pourable, self-leveling
- Bonds to steel

## **USES**

- Filling and sealing horizontal non-moving saw cut control joints and random cracks

## **PACKAGING AND YIELD**

Five Star® Control Joint Sealer is available in a 600 ml (22 fl. oz.) cartridges yielding approximately 37 cubic inches, or a 1 gallon (3.7 liters) unit yielding approximately 230 cubic inches.

## **SHELF LIFE**

One year in original unopened container. Store in dry conditions between 40°F and 90°F (4°C and 32°C).

### **TYPICAL PROPERTIES AT 70°F (21°C)**

<b>Mix Ratio</b> , by Volume	1:1
<b>Modulus of Elasticity</b> , ASTM D-695	2,600 psi (17.9 MPa)
<b>Tensile Strength</b> , ASTM D-638	730 psi (5.0 MPa)
<b>% Elongation at Break</b> , ASTM D-638	65% to 75%
<b>Absorption</b> , ASTM D-570	0.32%
<b>Shrinkage</b> , ASTM C-883	Pass
<b>Shore "D" Hardness</b> , ASTM D-2240	
24 hours	55 - 75
<b>Shore "A" Hardness</b> , ASTM D-2240	
24 hours	85 - 95
<b>Thermal Compatibility</b> , ASTM C-884	Pass
<b>Gel Time</b> at 70°F (21°C)	20 minutes

*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**

1. **SURFACE PREPARATION:** All surfaces to be in contact with Five Star® Control Joint Sealer shall be free of oil, grease, laitance and other contaminants. For best results surfaces should be dry. Concrete should be sandblasted and must be clean, sound, dry to ensure a good bond. Steel should be sandblasted to optimize bond development. Blow out all surfaces with oil-free compressed air.
2. **MIXING:** Material should be preconditioned to between 70°F and 80°F (21°C and 26°C) before using. Pre-mix each component thoroughly. Place one part by volume of Component A and one part by volume of Component B into a clean pail. Mix thoroughly for three minutes with low-speed drill (400-600 rpm) until uniformly blended. Mix only the quantity that can be used within 20 minutes at 70°F (21°C).
3. **METHODS OF PLACEMENT:** Five Star® Control Joint Sealer may be poured into place. Pour Five Star® Control Joint Sealer into joints or cracks or use low pressure application equipment to pour into place. For gunning placement instructions call Five Star's Engineering and Technical Service Center at 1-800-243-2206.
4. **CLEAN UP:** Use an appropriate solvent to clean uncured material. Cured material can only be removed mechanically.

**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's Engineering and Technical Service Center at 1-800-243-2206.

## **CONSIDERATIONS**

- Minimum substrate temperature is 40°F (4°C).
- For best results placement temperatures should be between 65°F and 85°F (18°C and 29°C).
- Do not thin. Solvents will prevent proper curing.
- Minimum age of new concrete should be between 21 and 28 days.
- Do not seal cracks under hydrostatic pressure.
- Do not use in moving cracks or expansion joints.
- Five Star® Control Joint Sealer is a vapor barrier after cure.

## **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 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's Engineering and Technical Service Center at 1-800-243-2206.

SKU/PRODUCT CODE	DESCRIPTION	#UNITS/PALLET	UNIT SIZE
30821	Five Star® Control Joint Sealer	432 (36 cases)	Resin (A) / Hardener (B): approx. 22 oz. (600 ml) material per cartridge 12 cartridges / case (includes mixers & nuts)
30822	Five Star® Control Joint Sealer	60	Resin (A): 4.95 lbs. (2.25 kg) Hardener (B): 4.04 lbs. (1.83 kg) 1 gallon

**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."

Specifications Subject to Change.

For most current version of datasheet, go to [FiveStarProducts.com](http://FiveStarProducts.com)

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