



EZ-CURE™ Grout

No Wet Cure, Fiber Reinforced, Precision Non-Shrink Grout

PRODUCT DESCRIPTION

Five Star® EZ-Cure™ Grout is a revolutionary cement-based, fiber reinforced, non-metallic, non-shrink grout for supporting machinery, equipment and structures. Formulated with an advanced additive technology, Five Star® EZ-Cure™ Grout requires **no wet cure or curing compounds**. Five Star® EZ-Cure™ Grout meets the performance requirements of ASTM C 1107-11 and CRD-C 621-93.

ADVANTAGES

- No wet curing or curing compounds needed
- 95% Effective Bearing Area (EBA)
- Provides placement versatility: pour, pump or dry pack
- Permanent equipment support
- Non-shrink from the time of placement
- Fiber reinforced for increased structural integrity

USES

- Grouting of machinery and equipment
- Non-shrink grouting of structural steel and precast concrete
- Grouting of anchors and dowels
- Support of tanks, vessels and other structures

PACKAGING AND YIELD

Five Star® EZ-Cure™ Grout is packaged in heavy-duty, polyethylene lined bags and is available in 50 lb. (22.7 kg) units yielding approximately 0.42 cubic feet (11.9 liters) of hardened material at maximum water content.

SHELF LIFE

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

TYPICAL PROPERTIES AT 70°F (21°C)

Early Height Change, ASTM C 827	Positive Expansion
Hardened Height Change, ASTM C 1090	0.0% to 0.3%
Effective Bearing Area	95%
Bond Strength, ASTM C 882, 28 Days	2,000 psi (13.8 MPa)
Compressive Strength, ASTM C 942 (C109 Restrained)	
1 Day	2,000 psi (13.8 MPa)
7 Days	4,000 psi (27.6 MPa)
28 Days	6,000 psi (41.4 MPa)
Working Time 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 in contact with Five Star® EZ-Cure™ Grout shall be free of oil, grease, laitance and other contaminants. Concrete must be clean, sound and roughened to ensure a good bond. Soak concrete surfaces for 8 to 24 hours prior to application with liberal quantities of potable water, leaving the concrete saturated and free of standing water.
- 2. FORMWORK:** Formwork shall be constructed of rigid non-absorbent materials, securely anchored, liquid-tight and strong enough to resist forces developed during grout placement. The clearance between formwork and baseplate should be sufficient to allow for a headbox. The clearance for remaining sides shall be one to two inches (25 - 50 mm). Areas where bond is not desired must be treated with form oil, paste wax or similar material. Contact the Five Star Products' Engineering and Technical Service Center for further information.
- 3. MIXING:** Mix Five Star® EZ-Cure™ Grout thoroughly for approximately four to five minutes to a uniform consistency with a mortar mixer (stationary barrel with moving blades). A drill and paddle mixer is acceptable for single bag mixes. For optimum performance, maintain grout at ambient temperatures between 50°F - 90°F (10°C - 32°C). Use heated or chilled water to help adjust working time. Mix Five Star® EZ-Cure™ Grout with 3 to 3½ quarts of potable water per 50 lb. bag. Do not exceed maximum recommended amount of mixing water as stated on the package or add an amount that will cause segregation. Working time is approximately 20 minutes at 70°F (21°C). Follow printed instructions on the package. Always add mixing water first to mixer followed by grout.
- 4. PLACEMENT PROCEDURES:** Five Star® EZ-Cure™ Grout may be dry packed or poured into place. Minimum placement thickness for Five Star® EZ-Cure™ Grout is 1 inch (25 mm). For pours over 4 inches (100 mm) in depth, Five Star® EZ-Cure™ Grout should be extended with a clean, damp coarse aggregate meeting the requirements of ASTM C 33.
- 5. POST-PLACEMENT PROCEDURES:** Five Star® EZ-Cure™ Grout requires no wet curing or curing compounds. In-service operation may begin once grout has reached desired strength.

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

CONSIDERATIONS

- If temperatures of equipment and surfaces are not between 50°F - 90°F (10°C - 32°C) at time of placement, refer to the Five Star® Design-A-Spec™ for cold and hot weather grouting procedures, or call the Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.
- Never exceed the maximum water content as stated on the bag or add an amount that will cause segregation. Construction practices dictate concrete foundation should achieve its design strength before grouting.

CAUTION

Contains cementitious material and crystalline silica. International Agency for Research on Cancer has determined that there is sufficient evidence for the carcinogenicity of inhaled crystalline silica to humans. Take appropriate measures to avoid breathing dust. Avoid contact with eyes and contact with skin. In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Immediately call a physician. Wash skin thoroughly after handling. 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
20050	EZ-Cure™ Grout	50 lb. Bag

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
750 Commerce Drive
Fairfield, CT 06825 USA
Tel: 203-336-7900 • Fax: 203-336-7930
www.FiveStarProducts.com

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