



## CHOCKFAST RED – TECHNICAL BULLETIN #617U A DEEP-POUR EPOXY GROUT

---

Revised: 05/2018

### PRODUCT DESCRIPTION

CHOCKFAST Red is a three-component, high strength, 100% solids, epoxy grouting compound used to grout large machinery and to support soleplates in all types of foundations. CHOCKFAST Red has an extremely high compressive strength. This along with negligible shrinkage makes it ideal for installing critically aligned machinery within very close tolerances.

### USE & BENEFITS

CHOCKFAST Red has the following advantages when compared to conventional cement-based non-shrink grouts:

- Impervious to oil
- Cures at least three times as quickly
- No mixing ratios to measure
- Grouts machinery in final aligned position
- High physical strength
- High impact strength
- Resistance to many more chemicals
- Strong bond to metal and concrete
- Unaffected by weathering and freeze / thaw cycling
- Stated physical properties assured
- Superior resistance to fatigue

### DESIGN CONSIDERATIONS

CHOCKFAST Red is quick curing, relative to cement grouts, but the cure is thermally gentle. This allows thick pours to be made without causing the stress cracks often associated with a hot-curing epoxy grout.

CHOCKFAST Red may be used in thickness greater than 2 inches (50mm), however, individual pours should generally not exceed 18 inches (460mm) in thickness and 7 feet (2.2m) in length. When grouting critically aligned machinery coupled to another machine, it is advisable to limit the final leveling pour in accordance with the instructions in Bulletin No. 615.

CHOCKFAST Red contains no diluents that could interfere with the curing mechanism or that could cause material loss during or after cure. Therefore, machinery may be positioned at its final elevation before pouring because the shrinkage is negligible. Critical alignments are maintained during machinery operation due to its high dimensional stability and resistance to creep and vibration.

### APPLICATION INSTRUCTIONS

CHOCKFAST Red may be mixed with contractor's hoe and wheelbarrow or in a small portable mortar mixer. Pre-condition resin, hardener and aggregate to 65°-80°F (18°-27°C) for 48 hrs. before mixing. Thoroughly mix hardener with resin using a Jiffy Mixing Blade for 3 to 5 minutes then add resin/hardener mix to aggregate. Where a very flowable mix is required the aggregate content may be reduced accordingly. However, in load-bearing areas, a maximum reduction to 3-1/2 bags is recommended. Please contact your local representative of our Worldwide Distributor Network or ITW Performance Polymers if less than 3-1/2 bags are being considered. See Bulletin No. 642 for mixing and installation procedures.

### PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH	15,250 psi (105.1 MPa)	ASTM C-579 MOD
COMPRESSIVE MODULUS OF ELASTICITY	2,000,000 psi (13790 MPa)	ASTM C-579 MOD
LINEAR SHRINKAGE	Not Measurable	ASTM D-2566
COEFFICIENT OF LINEAR THERMAL EXPANSION	11.2 x 10 <sup>-6</sup> / °F @ 32°F to 140°F (20.1 x 10 <sup>-6</sup> / °C @ 0°C to 60°C)	ASTM D-696
FLEXURAL STRENGTH	4,025 psi (27.8 MPa)	ASTM C-580
FLEXURAL MODULUS OF ELASTICITY	2,000,000 psi (13789.5 MPa)	ASTM C-580
TENSILE STRENGTH	1,890 psi (13.0 MPa)	ASTM D-638
IZOD IMPACT STRENGTH	4.6 in.lb/in. (0.02 N.m/mm)	ASTM D-256
FIRE RESISTANCE	Self-Extinguishing	ASTM D-635
SPECIFIC GRAVITY	2.06	

### PRODUCT INFORMATION

UNIT COVERAGE	1.6 ft <sup>3</sup> or 2,765 in <sup>3</sup> (45.3 Liters)
APPLICATION TEMPERATURE	55°F (13°C) to 95°F (35°C)
UNIT PACKAGING	Resin (NH): 1.6 gal (6.1 L) in a 3 gal pail Hardener (NH): 0.9 gal (3.5 L) in a plastic tray inserted into the top of the resin can Aggregate: (4) 46 lb. (21 kg) bags
UNIT WEIGHT	Resin: 15.4 lbs (7 kg) Hardener: 7.6 lbs (3.4 kg) Aggregate: 184 lbs (84 kg)
SHIPPING WEIGHT	207 lbs (94 kg)
CURE TIME (APPROXIMATE)	54 hours @ 60°F (16°C) 36 hours @ 72°F (21°C) 24 hours @ 80°F (27°C) 18 hours @ 90°F (32°C)
POT LIFE	Approximately 3 hours @ 70°F (21°C)
CLEAN UP	Water or IMPAX IXT-59 or similar epoxy solvent
SHELF LIFE	2 years in dry storage

**General:** Every reasonable effort is made to insure the technical information and recommendations on these data pages are true and accurate to the best of our knowledge at the date of issuance. However, this information is subject to change without notice. Prior versions of this publication are invalid with the release of this version. Products and information are intended for use by qualified applicators that have the required background, technical knowledge, and equipment to perform said tasks in a satisfactory manner. Consult your local distributor for product availability, additional product information, and technical support. **Warranty:** ITW Performance Polymers, a division of Illinois Tool Works Inc., warrants that its products meet their printed specifications. This is the sole warranty. This warranty expires one year after product shipment. **Warranty Claims:** If any product fails to meet the above, ITW Performance Polymers will, at its option, either replace the product or refund the purchase price. ITW Performance Polymers will have no other liability for breach of warranty, negligence, or otherwise. All warranty claims must be made in writing within one year of the date of shipment. No other claims will be considered. **Disclaimer:** ITW Performance Polymers makes no other warranty, expressed or implied, and specifically disclaims any warranty of merchantability or fitness for a particular purpose. Suggestions concerning the use of products are not warranties. The purchaser assumes the responsibility for determining suitability of products and appropriate use. ITW Performance Polymers' sole liability, for breach of warranty, negligence or otherwise, shall be the replacement of product or refund of the purchase price, at ITW Performance Polymers' election. Under no circumstances shall ITW Performance Polymers be liable for any indirect, incidental or consequential damages. **Modification of Warranty:** No distributor or sales representative has the authority to change the above provisions. No change in the above provisions will be valid unless in writing and signed by an officer or the Technical Director of ITW Performance Polymers. No term of any purchase order shall serve to modify any provision of this document. **Mediation and Arbitration:** If any dispute arises relating to products or product warranties, either the purchaser or ITW Performance Polymers may a) initiate mediation under the then current Center for Public Resources (CPR) Model Procedure for Mediation of Business Disputes, or b) initiate a non-binding arbitration under the rules of the American Arbitration Association for the resolution of commercial disputes.

### ITW PERFORMANCE POLYMERS

130 Commerce Drive | Montgomeryville | PA 18936 | USA | T: 215-855-8450 | E-mail: customerservice.na@itwpp.com | www.itwperformancepolymers.com