

Technical Bulletin # 617R

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 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 (46cm) 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 (latest revision).

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 first before mixing in 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 the CHOCKFAST Distributor or ITW Polymer Technologies if less than 3-1/2 bags are being considered. See Bulletin No. 642 for mixing and installation procedures.

ITW POLYMER TECHNOLOGIES

130 Commerce Drive • Montgomeryville, PA 18936 • 215-855-8450 • Fax 215-855-4688

www.chockfastgrout.comITW Polymer Technologies
Registered to ISO 9001:2009
File No. A3790ITW Performance Polymer Europe
ISO 9001:2009
Q 05-120

Physical Properties

| | | |
|---|--|----------------|
| COMPRESSIVE STRENGTH | 15,250 psi (1,072 kg/cm ²) | ASTM C-579 MOD |
| COMPRESSIVE MODULUS OF ELASTICITY | 2,000,000 psi (140,600 kg/cm ²) | ASTM C-579 MOD |
| LINEAR SHRINKAGE | Not Measurable | ASTM D-2566 |
| COEFFICIENT OF LINEAR THERMAL EXPANSION | 11.2 x 10 ⁻⁶ /°F @ 32°F to 140°F (20.1 x 10 ⁻⁶ /°C @ 0°C to 60°C) | ASTM D-696 |
| FLEXURAL STRENGTH | 4,025 psi (283 kg/cm ²) | ASTM C-580 |
| FLEXURAL MODULUS OF ELASTICITY | 2,000,000 psi (140,600 kg/cm ²) | ASTM C-580 |
| TENSILE STRENGTH | 1,890 psi (133 kg/cm ²) | ASTM D-638 |
| IZOD IMPACT STRENGTH | 4.6 in.lb/in. (0.02 N.m/mm) | ASTM D-256 |
| SERVICE TEMPERATURE | Up to 140°F (60°C) | |
| FIRE RESISTANCE | Self-Extinguishing | ASTM D-635 |
| SPECIFIC GRAVITY | 2.06 | |

Product Information

| | |
|-------------------------|--|
| UNIT COVERAGE | 1.6 ft ³ or 2,765 in ³ (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 @ 27°C (80°F); 18 hours @ 32°C (90°F) |
| POT LIFE | Approximately 3 hours @ 21°C (70°F) |
| SHELF LIFE | 2 years in dry storage |
| CLEAN UP | Water or IMPAX IXT-59 or similar epoxy solvent |

Date

06/2006

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 Polymer Technologies, 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 Polymer Technologies will, at its option, either replace the product or refund the purchase price. ITW Polymer Technologies 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 Polymer Technologies 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 Polymer Technologies' sole liability, for breach of warranty, negligence or otherwise, shall be the replacement of product or refund of the purchase price, at ITW Polymer Technologies' election. Under no circumstances shall ITW Polymer Technologies 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 Polymer Technologies. 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 Polymer Technologies 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.