



## CHOCKFAST BLUE – TECHNICAL BULLETIN #616M

Revised: 05/2017

### PRODUCT DESCRIPTION

CHOCKFAST Blue is a two-component, aggregate-filled, pourable epoxy grouting compound for severe applications. This highly developed material is often used to replace steel soleplates or rails and is used as an epoxy foundation capping material that is resistant to high operating temperatures. Its unique properties permit usage directly under highly stressed machinery mounting surfaces.

### USE & BENEFITS

Typical applications include the grouting of diesel engines, compressors, generators, gears, pumps and most other heavy equipment. CHOCKFAST Blue is best in class under heavy reciprocating and rotary machinery due to its excellent resistance to creep, fatigue and shock forces. It is also an excellent support surface for the CHOCKFAST Black epoxy chock.

### DESIGN CONSIDERATIONS

CHOCKFAST Blue is normally used in a thickness range of 1" to 1-1/2" (25-38mm). Thicker sections can be constructed with CHOCKFAST BLUE if proper layering techniques are used. Please contact ITW Engineered Polymers for additional application instructions.

Long pours should be divided into sections not exceeding 3'-6" (1.1m) in length. Longer, thicker or thinner pours are possible, but ITW Engineered Polymers should be consulted before deciding upon them. The pourable viscosity of the CHOCKFAST BLUE provides for essentially 100% surface contact. Because CHOCKFAST BLUE has negligible shrinkage, final alignment may be set before grouting.

### APPLICATION INSTRUCTIONS

For CHOCKFAST BLUE temperatures that will be between 120°-140°F (49°-60°C) during engine operation the static loading shall not normally exceed 500 psi (3,45 MPa) which is perfectly practical for most machinery. Below 120°F (49°C), loads up to 2,000 psi (13,79 MPa) are permissible, but 1,200 psi (8,27 MPa) should not be exceeded without contacting your local representative of our Worldwide Distributor Network or ITW Engineered Polymers.

Precondition resin and hardener to 70°-80°F (21°-27°C) for 24 hours before mixing. The hardener should be added to the resin and power mixed until a homogeneous color and texture are apparent. Because the resin is aggregate-filled, heavy duty mixing equipment is required. Mixing for 3-5 minutes with a Kol mixer or a large Jiffy mixer blade in a 3/4" drilling machine is usually sufficient.

# CHOCKFAST BLUE

EPOXY GROUT FOR SEVERE APPLICATIONS

### PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH	19,000 psi (131.0 MPa)	ASTM C-579 MOD
COMPRESSIVE MODULUS OF ELASTICITY	1,640,000 psi (11307 MPa)	ASTM C-579 MOD
LINEAR SHRINKAGE	0.0001 in./in. (0.0001 mm/mm)	ASTM D-2566
COEFFICIENT OF LINEAR THERMAL EXPANSION	15.4 X 10 <sup>-6</sup> /F° @ 32°F to 140°F (27.7 x 10 <sup>-6</sup> /C° @ 0°C to 60°C)	ASTM D-698
FLEXURAL STRENGTH	4,920 psi (33.9 MPa)	ASTM C-580
FLEXURAL MODULUS OF ELASTICITY	1.7 X 10 <sup>6</sup> psi (11721 MPa)	ASTM C-580
TENSILE STRENGTH	3,156 psi (21.8 MPa)	ASTM D-640
IZOD IMPACT STRENGTH	3.4 in.lbs./in. (0.15 Newton m/cm)	ASTM D-258
FIRE RESISTANCE	Self-extinguishing	ASTM D-637
SPECIFIC GRAVITY	2.0	

### PRODUCT INFORMATION

COVERAGE	800 in. (≈13.1 Liters)
APPLICATION TEMPERATURE	55°F (13°C) to 95°F (35°C)
UNIT PACKAGING	Resin (NH): 5 gal (18.9 L) in a 5 gal pail Hardener (NH): 0.34 gal (1.3 L) in ½ gal can Aggregate is premixed in the resin
UNIT WEIGHT	Resin: 55.5 lbs (25 kg) Hardener: 2.9 lbs (1.3 kg)
SHIPPING WEIGHT	62 lbs (28 kg)
CURE TIME (APPROXIMATE)	36 hrs.@60°F (16°C) 24 hrs.@72°F (21°C) 16 hrs.@80°F (27°C) 11 hrs.@90°F (32°C)
POT LIFE	35-50 minutes @ 70°F (21°C)
CLEAN UP	IMPAX IXT-59 or other epoxy solvent
SHELF LIFE	Excess of 2 years in dry storage

### REFERENCE

For design considerations and application details please refer to Bulletin # 642 or contact your local representative of our Worldwide Distributor Network or ITW Engineered Polymers.

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