



CHOCKFAST® RED VERSAFLOW – HIGH-FLOW, PUMPABLE EPOXY GROUT AVAILABLE IN RED OR NEUTRAL COLOR

REVISED: 06/2024

TECHNICAL DATA SHEET #1042

VERSION: D

PRODUCT DESCRIPTION

Chockfast® Red Versaflow Epoxy Grout is a breakthrough three-component grouting compound designed for maximum pumping and flow characteristics to improve the versatility and efficiency of use in the most difficult machinery and equipment. Chockfast's continual effort toward product optimization has resulted in the introduction of Chockfast Red Versaflow, which is ideal for establishing the long-term support and alignment required by the most demanding operational conditions. Chockfast Red Versaflow Epoxy Grout is available in red or a neutral, beige color.

USE & BENEFITS

Chockfast Red Versaflow Epoxy Grout offers improved working and placement qualities. It is suitable for small and large volume pours - achieving excellent cured properties for dependable, long-term service.

WORKING PROPERTIES

- Optimized for pumping and flow as a standard kit. Aggregate reduction is not required. [Reducing aggregate levels will affect product behavior and properties.]
- Fluid consistency allows large quantities of grout to be pumped using peristaltic and worm drive (progressive cavity) type pumps. Eliminates manual transport of product.
- Capable of low clearance, large area pours. Flows and fills quickly, decreasing installation time.
- When installed using a pump and hose, Chockfast Red Versaflow allows installers to easily overcome the challenges presented by areas of limited or difficult access, such as those found on large skid packages, elevated

structures, or in congested areas.

- Can also be poured using traditional placement methods.
- Pumping grout increases placement rates and productivity while reducing installation costs.
- High effective bearing area (>95%), extremely low shrinkage rates.
- Fast cure schedule allows quicker return to service.
- Greatly reduces the amount of "over the flange" waste.
- Maintains physical properties even at shallow depths.

DESIGN CONSIDERATIONS

A key feature of Chockfast Red Versaflow Epoxy Grout is its fluid consistency, allowing effective pumping using peristaltic and worm-drive (progressive cavity) pumps. Impressive discharge rates can be achieved, which are especially beneficial when grouting large-volume applications such as those required for high-speed compressor packages or when installing multiple pieces of equipment in a single operation. Delivery via hose provides versatility and access to difficult-to-reach locations.

The fluid nature of Chockfast Red Versaflow Epoxy Grout makes pumping not only possible, but a practical new option to consider when planning your next installation. If pumping is not preferred, Chockfast Red Versaflow Epoxy Grout can also be poured using traditional placement methods.

APPLICATION INSTRUCTIONS

Please refer to the appropriate safety data sheet (SDS) prior to using this product.

Precondition the Chockfast Red Versaflow resin, hardener, and aggregate. Material should be at a preferred temperature of 65°F - 80°F (18°C - 27°C) at least 24 hours

before use to ensure ease of mixing and installation. Transfer the hardener to the resin container. Thoroughly mix the two liquid components using a Jiffy Mixing Blade for 3 minutes or until there is a uniform consistency in the material, whichever is longer. Add the premixed liquids to a mortar mixer and one bag of aggregate. Progressively add the remaining bags of aggregate assuring a homogeneous mix. Mixing is complete when the aggregate is fully wetted out. Over-mixing will encourage the entrapment of air.

Pour the Chockfast Red Versaflow as soon as possible after mixing. Due to the fluid nature of Chockfast Red Versaflow, no reduction of aggregate is necessary. Please contact your

local representative of our Worldwide Distributor Network or ITW Performance Polymers for any questions or support, such as considering the reduction in aggregate used.

For detailed information and best practices for the effective installation of Chockfast Red Versaflow under dynamic equipment, please refer to Technical Guide 1043.

STORAGE RECOMMENDATIONS

All product components should be stored in a dry, shaded area in original unopened containers and within a temperature range of 65° - 95°F (16° - 35°C). For additional information, please refer to Technical Guide 1024.

PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH – POST-CURED	14,100 psi (97.2 MPa)	ASTM C579(B) MOD*
COMPRESSIVE MODULUS OF ELASTICITY	1.6 x 10 ⁶ psi (11.0 GPa)	ASTM C579(B) MOD*
COMPRESSIVE STRENGTH – 7 DAY	12,300 psi (84.8 MPa)	ASTM C579(B)
TENSILE STRENGTH	2,300 psi (15.9 MPa)	ASTM D638
FLEXURAL STRENGTH	5,200 psi (35.9 MPa)	ASTM C580
FLEXURAL MODULUS	1.55 x 10 ⁶ psi (10.7 GPa)	ASTM C580
EFFECTIVE BEARING AREA	High (Greater than 85%)	ASTM C1339
COEFFICIENT OF LINEAR THERMAL EXPANSION	19.1 x 10 ⁻⁶ in/in/°F (34.4 x 10 ⁻⁶ mm/mm/°C)	ASTM C531
LINEAR SHRINKAGE	≤ 0.063%	ASTM C531
BOND - STEEL	2,050 psi (14.1 MPa)	ASTM D1002
BOND - CONCRETE	2,050 psi (14.1 MPa). Concrete Failure	ASTM C882
FIRE RESISTANCE	Self-Extinguishing	ASTM D635
DENSITY	127.2 lb/ft ³ (2,037.6 kg/m ³)	ASTM C905

The data shown reflect typical results based on laboratory testing under controlled conditions. Variations from the above data are typical for field-prepared samples.

**Cured 24 hours at room temperature, post-cured 4 hours, and conditioned 4 hours at room temperature before evaluation.*

PRODUCT INFORMATION

UNIT COVERAGE	2.2 ft³, 16.3 gallons (0.062 m³, 61.7 L)	
TYPICAL POUR DEPTH	1 - 8 in (25 - 203 mm)	
TYPICAL APPLICATION TEMPERATURES	55°F to 95°F (13°C to 35°C)	
INITIAL CURE TIME (APPROXIMATE, BASED ON CONTACT SURFACE TEMPERATURES)	60°F (16°C) –	54 hours
	72°F (22°C) –	36 hours
	80°F (27°C) –	24 hours
	90°F (32°C) –	18 hours
POT LIFE (APPROXIMATE)	70°F (21°C) –	2.5 hours
	90°F (32°C) –	1.5 hours
PACKAGING PER UNIT	Resin (A):	3.5-gallons (13.3 liters) in a 6-gallon (22.7 liter) pail
	Hardener (B):	1.3-gallons (4.9 liters) in a 2-gallon (7.6 liter) pail
	Aggregate (C):	(Qty 5) 50-lb. (22.7 kg) bags
UNIT WEIGHT	Resin (A):	33.3 lb (15.1 kg)
	Hardener (B):	10.5 lb (4.7 kg)
	Aggregate (C):	250 lb (113.4 kg)
UNIT SHIPPING WEIGHT	299 lb (135.6 kg)	
CLEAN UP	Water, IMPAX IXT-59, or similar epoxy solvent	
SHELF LIFE	2 years in dry storage	
CHEMICAL RESISTANCE	Refer to Technical Guide 675	

REFERENCE

For any additional recommendations or applications beyond the typical ones listed in this document, please contact your local representative of our Worldwide Distributor Network or ITW Performance Polymers for further support.

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: +1-215-855-8450 | E-mail: customerservice.na@itwpp.com | www.itwperformancepolymers.com
Bay 150 | Shannon Industrial Estate | Shannon | County Clare | Ireland | T: +353 61 771 500 | E-mail: customerservice.shannon@itwpp.com