Chockfast®

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

REVISED: 06/2026

TECHNICAL DATA SHEET #1042

VERSION: F

PRODUCT DESCRIPTION

Chockfast® Red Versaflow Epoxy Grout is a three-component grouting compound engineered for superior pumping and flow characteristics, enabling efficient installation in challenging machinery and equipment applications. Developed through ongoing product optimization efforts, it provides reliable long-term support and precise alignment under demanding operating conditions.

Chockfast Red Versaflow is available in red or neutral beige.

USES & BENEFITS

Chockfast Red Versaflow Epoxy Grout is designed for improved working and placement characteristics, enabling efficient installation across a wide range of pour volumes. It develops excellent cured properties that provide dependable, long-term support and alignment in demanding service environments.

Typical applications include grouting pump and compressor bases, turbines, generators, and other rotating or static equipment. It is also well suited for specialty and repair applications, including grouting post-installed tension bars in precast pilings, pile cap repairs, and other structural grouting applications where high flow and reliable performance are critical.

WORKING PROPERTIES

- Optimized for pumping and flow in the standard unit; aggregate reduction is not recommended, as it will adversely affect performance and physical properties.
- Fluid consistency enables pumping of large volumes using commercially available peristaltic or progressive cavity pumps, reducing manual handling.
- Suitable for low-clearance, large-area pours; flows and fills rapidly to reduce installation time.
- Facilitates installation in restricted or difficult-to-access areas, including large skids, elevated structures (>66 ft [20 m]), and congested spaces when placed by pump and hose.
- Compatible with traditional placement methods using properly designed head boxes or standpipes.
- Pumping increases placement rates and productivity while reducing installation costs.
- High effective bearing area (>95%) with extremely low shrinkage.
- Fast cure supports quicker return to service.
- Minimizes over-the-flange waste.
- Maintains consistent physical properties, even at shallow depths.

DESIGN CONSIDERATIONS

Chockfast Red Versaflow Epoxy Grout features a fluid consistency that supports efficient pumping using peristaltic or progressive cavity pumps. Its flow characteristics enable higher pump throughput rates, making it well suited for large-volume installations, such as high-speed compressor packages or multi-equipment grouting operations. Hose delivery further enhances placement flexibility, particularly in areas with limited or difficult access.

While optimized for pumping, Chockfast Red Versaflow can also be installed using conventional pouring methods where appropriate. The material may be placed in multiple lifts or layers to accommodate varying installation requirements.

For application-specific recommendations or installation guidance, please contact your local representative or ITW Performance Polymers.

STORAGE RECOMMENDATIONS

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

APPLICATION INSTRUCTIONS – 1-BAG UNIT

Please refer to the appropriate Safety Data Sheet (SDS) before using this product.

Condition the Chockfast Red Versaflow resin, hardener, and aggregate to 65°F to 80°F (18°C to 27°C) for at least 24 hours before use to facilitate mixing and placement. Remove all components from the bucket. Slowly pour the entire Part A (Resin) container into the bucket, followed by the entire Part B (Hardener) container. Thoroughly mix the liquid components using a Jiffy-type mixing blade for a minimum of 3 minutes and until a uniform consistency is achieved. Slowly add the aggregate and mix using a mud-mixing blade until the aggregate is fully wetted out. Avoid over-mixing, as it may entrain air.

Place the grout immediately after mixing.

For detailed installation information and best practices for use under dynamic equipment, refer to Technical Guide 696.

APPLICATION INSTRUCTIONS - 5- & 6-BAG UNITS

Please refer to the appropriate Safety Data Sheet (SDS) before using this product.

Condition the Chockfast Red Versaflow resin, hardener, and aggregate to 65°F to 80°F (18°C to 27°C) for at least 24 hours before use to facilitate mixing and placement. Transfer the hardener to the resin container. Thoroughly mix the liquid components using a Jiffy-type mixing blade for a minimum of 3 minutes and until a uniform consistency is achieved. Add the premixed liquids to a mortar mixer with one bag of aggregate, then progressively add the remaining bags of aggregate until a homogeneous mix is achieved. Mixing is complete when the aggregate is fully wetted out. Avoid over-mixing, as it may entrain air.

Place the grout immediately after mixing. Due to the fluid nature of Chockfast Red Versaflow, aggregate reduction is not required.

For detailed installation information and best practices for use under dynamic equipment, refer to Technical Guide 1043.

PHYSICAL PROPERTIES

	5-bag Unit / 1-bag Unit	6-bag Unit	
COMPRESSIVE STRENGTH – POST-CURED	14,100 psi (97.2 MPa)	16,000 psi (110.3 MPa)	ASTM C579(B) MOD*
COMPRESSIVE MODULUS OF ELASTICITY	1.6 x 10^6 psi (11.0 GPa)	2.0 x 10^6 psi (13.8 GPa)	ASTM C579(B) MOD*
COMPRESSIVE STRENGTH – 7 DAY	12,300 psi (84.8 MPa)	15,000 psi (103.4 MPa)	ASTM C579(B)
TENSILE STRENGTH	2,300 psi (15.9 MPa)	2,000 psi (13.8 MPa)	ASTM D638
FLEXURAL STRENGTH	5,200 psi (35.9 MPa)	4,800 psi (33.1 MPa)	ASTM C580
FLEXURAL MODULUS	1.55 x 10^6 psi (10.7 GPa)	1.42 x 10^6 psi (9.8 GPa)	ASTM C580
EFFECTIVE BEARING AREA	High	High	ASTM C1339
COEFFICIENT OF LINEAR THERMAL EXPANSION 32 – 140°F (0 – 60°C)	15.9 x 10^{-6} in/in/°F (28.62 x 10^{-6} mm/mm/°C)	14.9 x 10^{-6} in/in/°F (36.82 x 10^{-6} mm/mm/°C)	ASTM C531
LINEAR SHRINKAGE	≤ 0.073%	≤ 0.091%	ASTM C531
BOND - STEEL	1,500 psi (10.4 MPa)	1,300 psi (9.0 MPa)	ASTM D1002
BOND - CONCRETE	2,050 psi (14.1 MPa). Concrete Failure	2,050 psi (14.1 MPa). Concrete Failure	ASTM C882
FIRE RESISTANCE	Self-Extinguishing	Self-Extinguishing	ASTM D635
DENSITY	127.2 lb/ft³ (2,037.6 kg/m³)	136.4 lb/ft³ (2,185.4 kg/m³)	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.*

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PRODUCT INFORMATION

		1-BAG UNIT	5-BAG UNIT	6-BAG UNIT
UNIT COVERAGE		0.44 ft³, 3.3 gal (0.012 m³ or 12.5 L)	2.2 ft³, 16.3 gal (0.062 m³, 61.7 L)	2.5 ft³, 18.8 gal (0.070 m³, 70.4 L)
TYPICAL POUR DEPTH		1 to 8 in (25 to 203 mm)	1 to 8 in (25 to 203 mm)	2 to 14 in (25 to 355 mm)
TYPICAL APPLICATION TEMPERATURES		55°F to 95°F (13°C to 35°C)	55°F to 95°F (13°C to 35°C)	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	54 hours	54 hours
	72°F (22°C) –	36 hours	36 hours	36 hours
	80°F (27°C) –	24 hours	24 hours	24 hours
	90°F (32°C) –	18 hours	18 hours	18 hours
POT LIFE (APPROXIMATE)	70°F (21°C) –	2.5 hours	2.5 hours	2.5 hours
	90°F (32°C) –	1.5 hours	1.5 hours	1.5 hours
PACKAGING PER UNIT	RESIN (A):	0.69-gal (2.61 L) in a 1-gal (3.8 L) can*	3.5-gal (13.3 L) in a 6-gal (22.7 L) pail	3.5-gal (13.3 L) in a 6-gal (22.7 L) pail
	HARDENER (B):	0.25-gal (0.94 L) in a 1-qt (0.9 L) can*	1.3-gal (4.9 L) in a 2-gal (7.6 L) pail	1.3-gal (4.9 L) in a 2-gal (7.6 L) pail
	AGGREGATE (C):	(Qty 1) 50-lb. (22.7 kg) bag*	(Qty 5) 50-lb. (22.7 kg) bags	(Qty 6) 50-lb. (22.7 kg) bags
COMPONENT WEIGHT	RESIN (A):	5.5 lb (2.5 kg)	33.3 lb (15.1 kg)	33.3 lb (15.1 kg)
	HARDENER (B):	1.7 lb (0.8 kg)	10.5 lb (4.7 kg)	10.5 lb (4.7 kg)
	AGGREGATE (C):	50 lb (22.7 kg)	250 lb (113.4 kg)	300 lb (136.1 kg)
UNIT SHIPPING WEIGHT		63 lb (28.6 kg)	299 lb (135.6 kg)	350 lb (158.8 kg)
CLEAN UP		water, vinegar, or similar non-residue-leaving solvents, including Devcon Cleaner Blend 300, MEK, or xylene		
SHELF LIFE		2 years in dry storage		
CHEMICAL RESISTANCE		Refer to Technical Guide 675		

**All components of 1-bag unit are packaged and shipped in a 7-gallon bucket.*

REFERENCE

For additional recommendations or applications beyond those listed in this document, please contact your local representative within our Worldwide Distributor Network or ITW Performance Polymers for further assistance.

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