Chockfast®

CHOCKFAST® RED – A DEEP-POUR EPOXY GROUT **REVISED: 10/2023**

TECHNICAL DATA SHEET #617 **VERSION: V**

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:

- Resistant to oil degradation
- Cures at least three times as quickly
- No mixing ratios to measure
- Grouts machinery in the final aligned position
- High physical & impact strengths
- 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 enables thick pours to be made without causing the stress cracks often associated with hot-curing epoxy grouts.

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 coup- led to another machine, it is advisable to limit the final leveling pour following the instructions in Technical Guide 615.

For detailed design considerations and application details, please refer to Technical Bulletin 1600.

APPLICATION INSTRUCTIONS

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

CHOCKFAST Red may be mixed with a 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 the 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.

For detailed information and best practices for the effective installation of Chockfast Red under dynamic equipment, please refer to Technical Guide 1600.

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	15,250 psi (105.1 MPa)	ASTM C579 MOD*
COMPRESSIVE MODULUS OF ELASTICITY	2,000,000 psi (13790 MPa)	ASTM C579 MOD*
COMPRESSIVE STRENGTH – 7 DAY	13,000 psi (87.1 MPa)	ASTM C579(B)
LINEAR SHRINKAGE	≤ 0.072%	ASTM C531
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 D696
FLEXURAL STRENGTH	4,025 psi (27.8 MPa)	ASTM C580
FLEXURAL MODULUS OF ELASTICITY	2,000,000 psi (13789.5 MPa)	ASTM C580
TENSILE STRENGTH	1,890 psi (13.0 MPa)	ASTM D638
IZOD IMPACT STRENGTH	4.6 in.lb/in. (0.02 N.m/mm)	ASTM D256
BOND - CONCRETE	2,350 psi (16.2 MPa). Concrete Failure	ASTM C882
FIRE RESISTANCE	Self-Extinguishing	ASTM D635
SPECIFIC GRAVITY	2.06	

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

UNIT COVERAGE		1.6 ft³, 11.97 gal (0.0453 m³, 45.3 L)
TYPICAL POUR DEPTH		2 – 18 in (50 – 457 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)		Approximately 3 hours @ 70°F (21°C)
UNIT PACKAGING (NORTH AMERICA)	Resin (A):	1.6 gal (6.1 L) in a 3-gal pail
	Hardener (B):	0.9 gal (3.5 L) in plastic tray, inserted into top of resin can
	Aggregate (C):	(Qty 4) 46 lb. (21 kg) bags
UNIT PACKAGING (INTERNATIONAL)	Resin (A):	1.6 gal (6.1 L) in a 3-gal pail
	Hardener (B):	0.9 gal (3.5 L) in a 1-gal can
	Aggregate (C):	(Qty 4) 46 lb. (21 kg) bags
UNIT WEIGHT	Resin (A):	15.5 lbs (7.0 kg)
	Hardener (B):	7.6 lbs (4.2 kg)
	Aggregate (C):	184 lbs (3.4 kg)
UNIT SHIPPING WEIGHT		212 lbs (96.2 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.

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