



CHOCKFAST® RED SG – THIN POUR, RAPID CURE, HIGH STRENGTH, EPOXY GROUT

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TECHNICAL DATA SHEET #618

VERSION: J

PRODUCT DESCRIPTION

Chockfast Red SG is a three component, high strength, 100% solids epoxy grouting compound which is used to grout large machinery and to support soleplates in all types of foundation designs with clearances as little as 1" (25-mm). Chockfast Red SG has extremely high physical properties and negligible shrinkage, making it ideal for final positioning of critically aligned equipment within close tolerances. Skid mounted compressors, extruders, turbines, pumps, motors and crane rails are just a few types of equipment supported on Chockfast Red SG. When using Chockfast Red SG for crane rail applications, control or expansion joints should be placed at least every 10' (3m).

USE & BENEFITS

Chockfast Red SG has the following advantages when compared to conventional cementitious grouts:

- Impervious to oil and chemical attack
- Cures at least three times as quickly
- Pre-packaged unit
- Grout machinery in final aligned position
- Higher physical strengths
- Strong bond to metal and concrete
- Unaffected by weathering and freeze/thaw cycling
- Superior resistance to fatigue

Chockfast Red SG contains no non-reactive diluents which could interfere with the curing mechanism, or which could cause volumetric loss during or after cure.

Machinery may be positioned at its final elevation before pouring because the shrinkage is negligible. Critical alignments are maintained during machinery operation due

to Chockfast Red SG's high dimensional stability and resistance to creep and vibration.

DESIGN CONSIDERATIONS

For design considerations and application details, please refer to Technical Bulletin 1600 or contact your local representative of the Chockfast Worldwide Distributor Network or ITW Performance Polymers.

APPLICATION INSTRUCTIONS

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

Chockfast Red SG may be mixed with a contractor's hoe and wheelbarrow or in a portable mortar mixer. Thoroughly mix hardener with resin first before mixing in aggregate.

Chockfast Red SG 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 SG may be used in any thickness greater than 1" (25mm); however, individual pours should generally not exceed 4" (100mm) in thickness and approximately 5' (1.5m) in length.

Chockfast Red SG cure rates and flowability will be enhanced somewhat if material temperatures are warmer than the existing ambient conditions listed above.

It is always a good idea to keep Chockfast Red SG materials in a well-protected area until the job site is fully prepared for mixing and placement.

NOTE: Standard Chockfast Red is available and allows deep single pours to 18" (460-mm) for concrete reconstruction. Please see Technical Data Sheet 617 and

Technical Bulletin 1600 for further information.

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.

STORAGE RECOMMENDATIONS

All product components should be stored in a dry, shaded

PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH	18,120 psi (124.9 MPa)	ASTM C579(B) MOD*
COMPRESSIVE MODULUS OF ELASTICITY	1.97 x 10 ⁶ psi (13.6 GPa)	ASTM C579(B) MOD*
COMPRESSIVE STRENGTH – 7 DAY	17,500 (120.7 MPa)	ASTM C579(B)
LINEAR SHRINKAGE	≤ 0.010%	ASTM C531
COEFFICIENT OF LINEAR THERMAL EXPANSION	10.8 x 10 ⁻⁶ / °F @ 32°F to 140°F (19.4 x 10 ⁻⁶ / °C @ 0°C to 60°C)	ASTM D696
FLEXURAL STRENGTH	4,800 psi (33.09 MPa)	ASTM C580
FLEXURAL MODULUS OF ELASTICITY	2.62 x 10 ⁶ psi (18.1 GPa)	ASTM C580
TENSILE STRENGTH	2,130 psi (14.69 MPa)	ASTM D638
IZOD IMPACT STRENGTH	7.2 in.lbs./in. (0.32 Newton m/cm)	ASTM D258
BOND - CONCRETE	3,800 psi (26.2 MPa). Concrete Failure	ASTM C882
FIRE RESISTANCE	Self-Extinguishing	ASTM D635
DENSITY	137.66 lbs/ft ³ (2205 kg/m ³)	
SPECIFIC GRAVITY	2.205	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	1.6 ft³, 11.97 gal (0.0453 m³, 45.3 L)	
TYPICAL POUR DEPTH	1 – 4 in (25 - 101 mm)	
TYPICAL APPLICATION TEMPERATURES	55°F to 80°F (13°C to 27°C)	
INITIAL CURE TIME (APPROXIMATE, BASED ON CONTACT SURFACE TEMPERATURES)	60°F (16°C): 48 hours 70°F (21°C): 24 hours	
POT LIFE (APPROXIMATE)	Approximately 1 hour @ 70°F (21°C)	
PACKAGING PER UNIT	Resin (A):	2.6 gal (9.8 L) in a 3-gal pail
	Hardener (B):	0.4 gal (1.5 L) in a 1-gal can
	Aggregate (C):	(Qty 4) 46 lb. (21 kg) bags
UNIT WEIGHT	Resin (A):	23.3 lb (10.6 kg)
	Hardener (B):	3.6 lb (1.6 kg)
	Aggregate (C):	184 lb (83.5 kg)
UNIT SHIPPING WEIGHT	213 lbs. (96.6 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.

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