

Bulletin # 618H

#### 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 25mm (1"). 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.

#### Use & Benefits

CHOCKFAST Red SG has the following advantages over conventional cementitious grouts:

- Impervious to oil and chemical attack
- Pre-packaged unit – no measuring
- Higher physical strengths'
- Unaffected by weathering and freeze/thaw cycling
- Cures at least three times as quickly
- Grout machinery in final aligned position
- Strong bond to metal and concrete
- Superior resistance to fatigue

#### Design Considerations

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. CHOCKFAST Red SG contains no diluents that could interfere with the curing mechanism or that could cause material loss during or after cure.

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 25mm (1"); however, individual pours should generally not exceed 100mm (4") in thickness and 1.5m (5') in length. Expansion joints should be provided at least every 1.5 m (5ft.). When using CHOCKFAST Red SG for crane rail applications expansion joints may be placed every 3m (10').

For design considerations and application details, please request Bulletin No. 642 or contact ITW Philadelphia Resins' Engineering Services Department.

NOTE: Standard CHOCKFAST Red is available and allows deep single pours to 450 mm (18") for concrete reconstruction. Please see Bulletins No. 642 and 617.

#### Application Instructions

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. CHOCKFAST Red SG cure rates and flowability will be enhanced somewhat if the materials are stored above 21oC (70oF) for 24 hours prior to use.

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. Where a very flowable mix is required, the aggregate content may be reduced accordingly. Contact the CHOCKFAST Representative or ITW Philadelphia Resins when reducing aggregate.

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ITW Performance Polymers Europe  
ISO 9001:2000  
Q 05420

## Physical Properties

COMPRESSIVE STRENGTH:	1,275 kg/cm <sup>2</sup> (18,120 psi)	ASTM C-579 (Modified)
COMPRESSIVE MODULUS OF ELASTICITY:	138,535 kg/cm <sup>2</sup> (1.97 x 10 <sup>6</sup> psi)	ASTM C-579 (Modified)
LINEAR SHRINKAGE:	Not Measurable	ASTM D-2566
COEFFICIENT OF LINEAR THERMAL EXPANSION:	20.1 x 10 <sup>-6</sup> /°C @ 0°C to 60°C 11.2 x 10 <sup>-6</sup> /°F @ 32°F to 140°F)	ASTM D-696
FLEXURAL STRENGTH:	340 kg/cm <sup>2</sup> (4,800 psi)	ASTM C-580
FLEXURAL MODULUS OF ELASTICITY:	184,200 kg/cm <sup>2</sup> (2.62 x 10 <sup>6</sup> psi)	ASTM C-580
TENSILE STRENGTH:	150 kg/cm <sup>2</sup> (2,130 psi)	ASTM D-638
IZOD IMPACT STRENGTH:		ASTM D-258
FIRE RESISTANCE:	Self-Extinguishing	ASTM D-635
SPECIFIC GRAVITY:	2.24	

## Product Information

UNIT PACKAGING:	Resin: 1 - 9.05 L (2.59 gal) in a 3 gal slack-filled can Hardener: 1 - 1.63 L (0.43 gal) in a 1gal can Aggregate: 4 – 21 kg (46 lb.) bags of Aggregate
UNIT WEIGHT:	96 kg (211 lbs.)
UNIT COVERAGE:	45.3 Liters (1.6 ft <sup>3</sup> )
CURE TIME (approximate):	24 to 48 hours @ 21°C (70°F)
POT LIFE:	1 hour @ 21°C (70°F)
SHELF LIFE:	Two years in dry storage
CLEAN UP:	IMPAX IXT-59 or similar epoxy solvent

**Reference** For design considerations and application details please request Bulletin No. XXX or contact ITW Philadelphia Resins' Engineering Services Department.

**Date** 03/2004