

CHOCKFAST RED

TECHNICAL Bulletin #617 D

CHOCKFAST RED 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. CHOCKFAST RED has extremely high compressive strength and negligible shrinkage, making it ideal for the final positioning of critically aligned machinery within close tolerances.

CHOCKFAST RED has the following advantages when compared to conventional cement grouts:

- Impervious to oil
- Cures at least three times as quickly
- No mixing ratios to measure
- Grouts machinery in final aligned position
- Higher physical strength
- High impact strength
- 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

CHOCKFAST RED contains no nonreactive diluents which could interfere with the curing mechanism or which could cause material 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 its high dimensional stability and resistance to creep and vibration.

CHOCKFAST RED may be mixed with contractor's hoe and wheelbarrow or in a small portable mortar mixer. Precondition resin, hardener and aggregate to 18°-27°C (65°-80°F) 48 hrs. before mixing. Thoroughly mix hardener with resin first before mixing in aggregate. Where a very flowable mix is required the aggregate content may be reduced accordingly. However, in loadbearing areas a maximum reduction to 3-1/2 bags is recommended. Please contact the CHOCKFAST Representative or ITW Philadelphia Resins if less than 3-1/2 bags are being considered. See Bulletin No. 642 for mixing procedures.

CHOCKFAST RED 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 may be used in thickness greater than 30mm (1.25"), however, individual pours should generally not exceed 46cm (18") in thickness and 2.2m (7') in length. When grouting highly critically aligned machinery which is coupled to another machine it is advisable to limit the final leveling pour in accordance with the instructions in Bulletin No. 615 (latest revision).

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

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PHYSICAL PROPERTIES

COEFFICIENT OF LINEAR THERMAL EXPANSION: Temperature Range	20.1 x 10 ⁻⁶ /C° 0°to 60°C	ASTM D-696 (11.2 x 10 ⁻⁶ /F°) (32° to 140°F)
COMPRESSIVE MODULUS OF ELASTICITY:	140600 kg/cm ² (2,000,000 psi)	ASTM C-579 (Modified)
COMPRESSIVE STRENGTH:	1072 kg/cm ² (15,250 psi)	ASTM C-579 (Modified)
FIRE RESISTANCE:	Self-extinguishing	ASTM D-635
FLEXURAL STRENGTH:	2825 kg/cm ² (4025 psi)	ASTM C-580
FLEXURAL MODULUS OF ELASTICITY	140600 kg/cm ² (2,000,000 psi)	ASTM C-580
IZOD IMPACT STRENGTH:	0.02 N.m/mm (4.6 in.lb/in)	ASTM D-256
LINEAR SHRINKAGE:	Not measurable	ASTM D-2566
POT LIFE:	Approximately 3 hours @ 21°C (70°F)	
SPECIFIC GRAVITY:	2.06	
TENSILE STRENGTH:	133 kg/cm ² (1,890 psi)	ASTM D-638
COVERAGE:	94 kg (207 lbs.) 45.3 liters (1.6 ft ³)	
CURE TIME (approximate):	54 hrs. @ 16°C (60°F) 36 hrs. @ 21°C (72°F) 24 hrs. @ 27°C (80°F) 18 hrs. @ 32°C (90°F)	
PACKAGING:	Resin: 6.1 liters (1.6 gal) Hardener: 3.4 liters (0.9 gal) Aggregate: 4.21 kg bags (4 – 46 lb. bags)	
SHELF LIFE:	2 years in dry storage	