

Bulletin # 616K

Product Description

CHOCKFAST Blue is a two component, pourable epoxy grouting compound that contains aggregate. This highly developed material is used to replace steel soleplates or as an epoxy capping material on foundations where severe conditions exist such as high operating temperatures and corrosive environments.

Use & Benefits

CHOCKFAST Blue's unique properties permit usage directly under highly stressed machinery mounting surfaces. Typical applications include the grouting of diesel engines, compressors, generators, gears, pumps and most other heavy equipment. CHOCKFAST Blue is unexcelled under heavy reciprocating and rotary machinery due to its excellent resistance to creep, fatigue and shock forces. It is also an excellent support surface for the CHOCKFAST Black.

Design Considerations

CHOCKFAST Blue is normally used in a thickness range of 25-38mm (1" to 1-1/2"). Thicker sections can be constructed with CHOCKFAST Blue if proper layering techniques are used. Please contact ITW Philadelphia Resins for additional application instructions.

Long pours should be divided into sections not exceeding 1.1m (3'-6") in length. Longer, thicker or thinner pours are possible, but ITW Philadelphia Resins should be consulted before deciding upon them. The pourable viscosity of the CHOCKFAST BLUE provides for essentially 100% surface contact. Because CHOCKFAST BLUE has negligible shrinkage, final alignment may be set before grouting.

Where foundation temperatures are between 49°-60°C (120°-140°F) during normal engine operation, the static loading on top of CHOCKFAST Blue should not exceed 35 kg/cm² (500 psi). This is practical and achievable for most machinery. Where foundation temperatures are below 49°C (120°F), loading CHOCKFAST Blue up to 140 kg/cm² (2,000 psi) is permissible. However, loading CHOCKFAST Blue over 85 kg/cm² (1,200 psi) should not be attempted without contacting ITW Philadelphia Resins for consultation on the application.

Application Instructions

Precondition both the resin and hardener to 21°-27°C (70°-80°F) for 24 hours before mixing. The hardener should be slowly added to the resin and power mixed until a homogeneous color and texture are apparent. Mixing for 3-5 minutes with a KOL mixer or a large Jiffy mixer blade in a 3/4" drilling machine is usually sufficient.

ITW PHILADELPHIA RESINS

130 Commerce Drive • Montgomeryville, PA 18936 • 215-855-8450 • Fax 215-855-4688

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File No. A3790



ITW Performance Polymers Europe
ISO 9001:2000
Q 05420

Physical Properties

COMPRESSIVE STRENGTH:	1,336 kg/cm ² (19,000 psi)	ASTM C-579
COMPRESSIVE MODULUS OF ELASTICITY:	115,300 kg/cm ² (1,640,000 psi)	ASTM C-579
LINEAR SHRINKAGE:	0.0001 mm/mm	ASTM D-2566
COEFFICIENT OF LINEAR THERMAL EXPANSION:	0°C to 60°C – 27.7 x 10 ⁻⁶ /°F (32°F to 140°F – 15.4 x 10 ⁻⁶ /°F)	ASTM D-698
FLEXURAL STRENGTH:	354 kg/cm ² (4,920 psi)	ASTM C-580
FLEXURAL MODULUS OF ELASTICITY:	120,300 kg/cm ² (1.7 x 10 ⁶ psi)	ASTM C-580
TENSILE STRENGTH:	225 kg/cm ² (3,156 psi)	ASTM D-638
IZOD IMPACT STRENGTH:	0.15 N.m/cm (3.4 in.lbs/in.)	ASTM D-256
FIRE RESISTANCE:	Self-extinguishing	ASTM D-635
SPECIFIC GRAVITY:	2.0	

Product Information

UNIT PACKAGING:	5 gal bucket
UNIT WEIGHT:	26 kg (58 lbs.) / unit
UNIT COVERAGE:	1,300 cm ³ / unit (800 in ³ / unit)
CURE TIME (approximate):	36 hours @ 16°C (60°F) 24 hours @ 21°C (72°F) 16 hours @ 27°C (80°F) 11 hours @ 32°C (90°F)
POT LIFE:	35 to 50 minutes @ 21°C (70°F)
SHELF LIFE:	Excess of 2 years in dry storage
CLEAN UP:	IMPAX IXT-59 or similar epoxy solvent

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

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