

Bulletin # 666G

Product Description

CHOCKFAST® Black is a specifically formulated 100% solids, inert filled casting compound developed for use as a chocking or grouting material.

CHOCKFAST® Black is a cost-effective method of maintaining permanent precise alignment of critical equipment. It will withstand severe environments involving high physical and thermal shock.

Use & Benefits

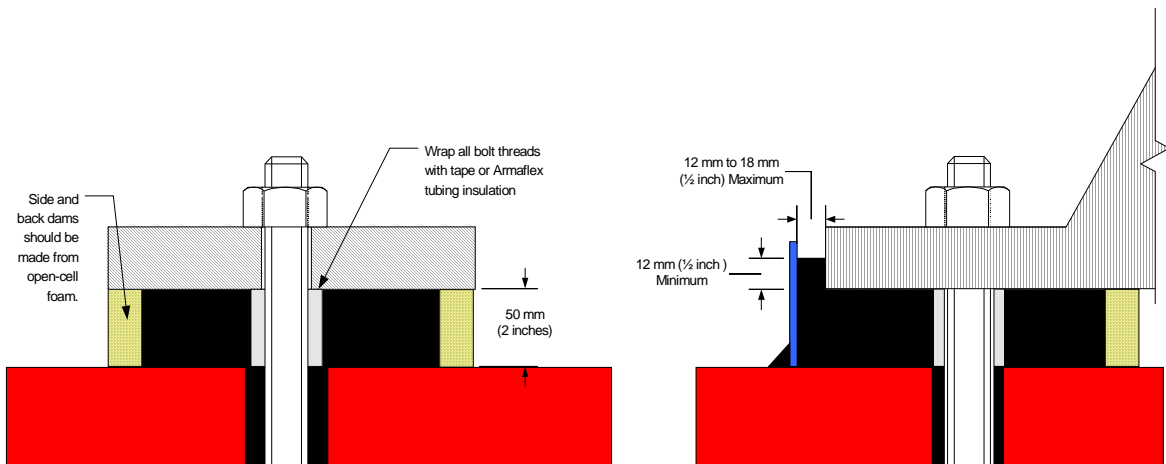
This unique product is used under gas and diesel engines, compressors, generators, turbines, motors, pumps and various other types of equipment. CHOCKFAST® Black is ideal for use under these hot running reciprocating and rotating machines because of its excellent resistance to creep and fatigue at high operating temperatures. It is non-shrinking and has a very high impact and compressive strength. Resin chocks made with CHOCKFAST® Black reduce possible bearing or crankshaft damage because they (1) minimize heat build-up on foundations, (2) assure precise and unsurpassed contact with bedplates, and (3) provide a high coefficient of friction to help hold engines down tight. The excellent flowability of CHOCKFAST® Black allows it to fill voids in the chock area and conform to all surface irregularities

Design Considerations

CHOCKFAST® Black was designed to be a thick pour liquid chocking material. A chock depth of 50mm (2") is standard; however, thinner or thicker pours can be made satisfactorily. The 50mm (2") chock elevates equipment above the underlying foundation, which allows a free flow of air thereby reducing possible foundation humping problems.

Contact ITW Philadelphia Resins for information regarding pours less than 32mm (1-1/4") in thickness or greater than 62mm (2-1/2") in thickness.

Application Instructions



ITW PHILADELPHIA RESINS

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

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ITW Philadelphia Resins
Registered to ISO 9001:2000
File No. A3790



ITW Performance Polymers Europe
ISO 9001:2000
Q 05420

Physical Properties

COMPRESSIVE STRENGTH:	1216 kg/cm ² (17,300 psi)	ASTM C-695 (Modified)
COMPRESSIVE MODULUS OF ELASTICITY:	5.6x10 ⁴ kg/cm ² (800,000 psi)	ASTM C-695 (Modified)
LINEAR SHRINKAGE:	0.00018 mm/mm (0.00018 in/in)	ASTM D-2566
COEFFICIENT OF LINEAR THERMAL EXPANSION:	27.0 x 10 ⁻⁶ /C° @ 0°C to 60°C (32°F to 140°F @ 15.0 X 10 ⁻⁶ /F°)	ASTM D-696
FLEXURAL STRENGTH:	435 kg/cm ² (6,200 psi)	ASTM C-580
FLEXURAL MODULUS OF ELASTICITY:	101,300 kg/cm ² (1.4 x 10 ⁶ psi)	ASTM C-580
TENSILE STRENGTH:	204 kg/cm ² (2,900 psi)	ASTM D-638
SHEAR STRENGTH:	350 kg/cm ² (5,000 psi)	FED-STD-406 (Method 1041)
IZOD IMPACT STRENGTH:	0.23 N.m/cm (5.1 in.lbs./in)	ASTM D-256
FIRE RESISTANCE:	Self Extinguishing	ASTM D-635
SPECIFIC GRAVITY:	1.94	
BARCOL HARDNESS:	55 Full Cure	ASTM D-2583
MAXIMUM OPERATING TEMPERATURE:	94°C (200°F)	

Product Information

UNIT PACKAGING:	Large Pail
UNIT WEIGHT:	8.6 kg (19 lbs)
UNIT COVERAGE:	4,343 cm ³ per 8.6 kg pail (265 in ³ per 19 lb pail)
CURE TIME (approximate):	48 hours @ 15°C (60°F) 36 hours @ 18°C (65°F) 24 hours @ 21°C (70°F) 18 hours @ 26°C (80°F)
POT LIFE:	45 min. @ 21°C (70°F)
SHELF LIFE:	Exceed 18 months
CLEAN UP:	PRT-59 or similar epoxy cleaner

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

Date 04/2004