

# CHOCKFAST® BLACK Machinery Chocking Compound

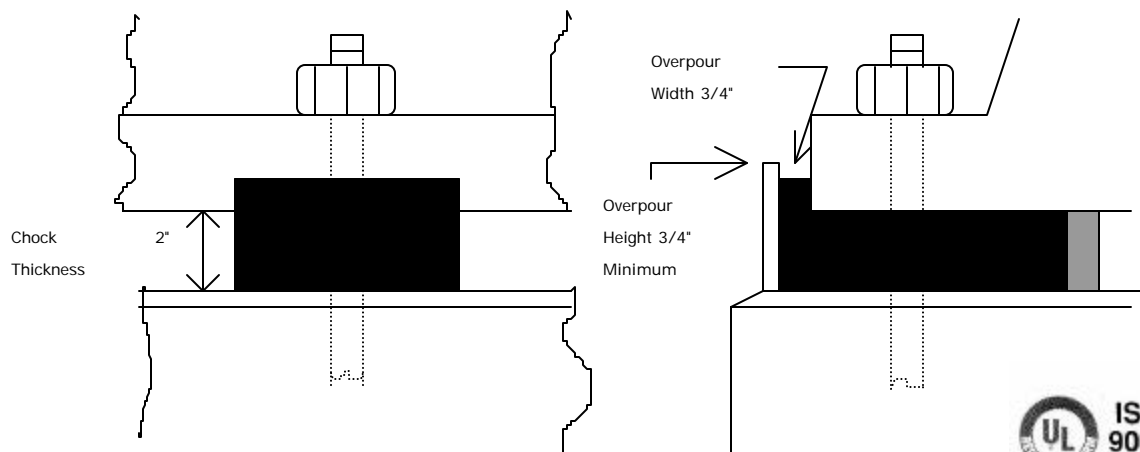
## Bulletin # 666F

CHOCKFAST BLACK is a specifically formulated 100% solids, inert filled casting compound developed for use as a chocking or grouting material. This unique product is used under gas and diesel engines, compressors, generators, turbines, motors, pumps and various other types of equipment. 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. CHOCKFAST BLACK is ideal for use under hot running reciprocating and rotating machinery due to its excellent resistance to creep and fatigue at high operating temperatures. It is non shrinking and has a very high impact and compressive strength. Since these resin chocks (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...they reduce possible bearing or crankshaft damage.

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.

The excellent flowability of CHOCKFAST BLACK allows it to fill voids in the chock area and conform to all surface irregularities. This eliminates the need to machine equipment bedplates which is both costly and time consuming. The excellent surface contact and the high coefficient of friction between CHOCKFAST BLACK and the machinery bedplate assure a permanent precise alignment.

NOMINAL THICKNESS STANDARDS - CHOCKFAST BLACK



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PHYSICAL PROPERTIES

COEFFICIENT OF LINEAR THERMAL EXPANSION:		
Temperature Range	27.0 x 10 <sup>-6</sup> /C°	ASTM D-696
0°C to 60°C (32°F to 140°F)	15.0 X 10 <sup>-6</sup> /F°	
COMPRESSIVE MODULUS OF ELASTICITY:	5.6x10 <sup>4</sup> kg/cm <sup>2</sup> (800,000 psi)	ASTM D-695 (Modified)
COMPRESSIVE STRENGTH:	1216 kg/cm <sup>2</sup> (17,300 psi)	ASTM D-695 (Modified)
MAXIMUM OPERATING TEMPERATURE	94°C (200°F)	
FIRE RESISTANCE:	Self Extinguishing	ASTM D-635
FLEXURAL STRENGTH:	435 kg/cm <sup>2</sup> (6200 psi)	ASTM D-580
FLEXURAL MODULUS OF ELASTICITY	101300 kg/cm <sup>2</sup> (1.4 x 10 <sup>6</sup> psi)	ASTM D-580
HARDNESS-BARCOL:	55 Full Cure	ASTM D-2583
IZOD IMPACT STRENGTH:	0.23 N.m/cm (5.1 in.lbs./in)	ASTM D-256
LINEAR SHRINKAGE:	0.00018mm/mm (0.00018 in/in)	ASTM D-2566
POT LIFE:	45 min. @ 21°C (70°F)	
SPECIFIC GRAVITY:	1.94	
TENSILE STRENGTH:	204 kg/cm <sup>2</sup> (2,900 psi)	ASTM D-638
COVERAGE:	4343 cc per 8.6 kg 86860mm <sup>2</sup> @ 50mm thick (265 cu.in. per 19 lbs.) (132 in <sup>2</sup> @ 2" thick)	
CURE TIME:	48 hours @ 15°C (60°F) 36 hours @ 18°C (65°F) 24 hours @ 21°C (70°F) 18 hours @ 26°C (80°F)	
SHEAR STRENGTH:	350 kg/cm <sup>2</sup> (5,000 psi)	FED-STD-406 (Method 1041)
SHELF LIFE:	Exceed 18 months	