



CHOCKFAST® BLACK – TECHNICAL BULLETIN #666 HIGH TEMPERATURE CHOCKING COMPOUND

REVISED: 07/2021

VERSION: J

PRODUCT DESCRIPTION

CHOCKFAST Black is a specifically formulated 100% solids, inert filled casting compound developed for use as a chocking material. It 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 alignment and unsurpassed contact with bedplates, and (3) provide a high coefficient of friction to help hold engines down tight. The excellent flow-ability of CHOCKFAST Black allows it to fill voids in the chock area and conform to all surface irregularities

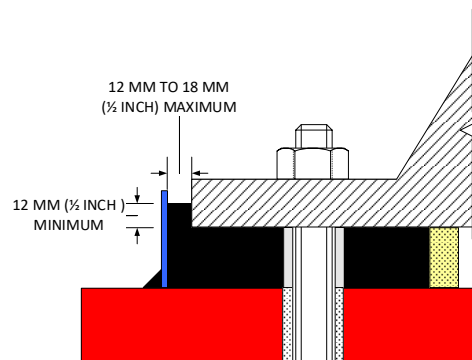
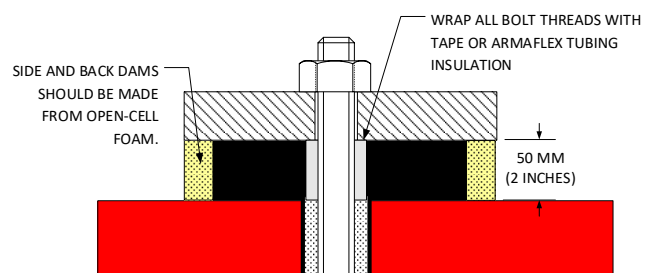
DESIGN CONSIDERATIONS

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

Please contact your local representative of our Worldwide Distributor Network or ITW Performance Polymers for information regarding pours less than 1-1/4" (32-mm) in thickness or greater than 2-1/2" (62-mm) in thickness.

INSTALLATION INSTRUCTIONS

Construct a chock mold around one or more anchor bolts using open cell foam damming material on three sides. Wrap the shank of the anchor bolt with tape, cover with foam pipe insulation or coat with non-melt grease to prevent the CHOCKFAST from sticking to it and to seal the bolt hole. Place a metal dam 1/2" to 3/4" (12-mm to 18-mm) from the mounting pad and seal with caulk. Spray the in-side of the mold and front metal dam with Release Agent. Mix and pour the epoxy as directed.



PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH	17,300 psi (119.3 MPa)	ASTM D695 MOD
COMPRESSIVE MODULUS OF ELASTICITY	800,000 psi (5515.8 MPa)	ASTM D695 MOD
LINEAR SHRINKAGE	0.00018 in/in (0.00018 mm/mm)	ASTM D2566
COEFFICIENT OF LINEAR THERMAL EXPANSION	15.0 X 10 ⁻⁶ /°F @ 32°F to 140°F (27.0 x 10 ⁻⁶ /°C @ 0°C to 60°C)	ASTM D696
FLEXURAL STRENGTH	6,200 psi (42.8 MPa)	ASTM C580
FLEXURAL MODULUS OF ELASTICITY	1.4 x 10 ⁶ psi (9652.7 MPa)	ASTM C580
TENSILE STRENGTH	2,900 psi (20.0 MPa)	ASTM D638
SHEAR STRENGTH	5,000 psi (34.5 MPa)	FED-STD-406 (Method 1041)
IZOD IMPACT STRENGTH	5.1 in.lbs./in (0.23 N.m/cm)	ASTM D256
FIRE RESISTANCE	Self-Extinguishing	ASTM D635
SPECIFIC GRAVITY	1.94	
BARCOL HARDNESS	55 @ Full Cure	ASTM D2583

PRODUCT INFORMATION

UNIT COVERAGE	265 in ³ (4,343 cm ³)
APPLICATION TEMPERATURE	55°F to 95°F (13°C to 35°C)
UNIT PACKAGING	Resin (NH) – 18.2 lbs. (8.3 kg), 1.2 gal (4.5 L) in a 2-gal pail Hardener (H) – 0.74 lbs. (0.34 kg), 11.5 oz (0.34 L) in a 16-oz plastic bottle
SHIPPING WEIGHT	21 lbs. (9.5 kg)
CURE TIME (APPROXIMATE)	48 hours @ 60°F (15°C) 36 hours @ 65°F (18°C) 24 hours @ 70°F (21°C) 18 hours @ 80°F (27°C)
POT LIFE	45 min. @ 70°F (21°C)
CLEAN UP	IMPAX IXT-59 or similar epoxy cleaner
SHELF LIFE	2 years

REFERENCE

For design considerations and application details please refer to Technical Bulletin No. 642 or contact your local representative of our Worldwide Distributor Network or ITW Performance Polymers.

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