# **CHOCKFAST®** Orange

#### The Premier Industrial Chocking Compound

Technical Bulletin # 1032A

## **Product** Description

CHOCKFAST ORANGE (PR-610TCF) is a specially formulated 100% solids, two component inert filled casting compound developed for use as a chocking or grouting material. CHOCKFAST is designed to withstand severe marine and industrial environments involving a high degree of both physical and thermal shock. The compound is non-shrinking and has very high impact and compressive strength.

Years of successful in-service experience have shown the use of PR-610TCF to be a far superior yet less expensive method of establishing and permanently retaining precise equipment alignment under extreme conditions.

#### Use & Benefits

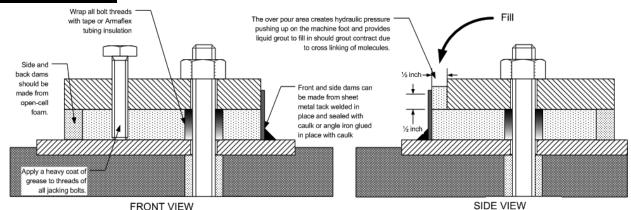
CHOCKFAST ORANGE was developed as a chocking or grouting compound for use under industrial engines and other types of machinery in depths of ½" to 4" (12mm to 100mm). The compound is used under diesel and gas engines, reduction gears, generators, compressors, pumps, bearing blocks, crane rails and numerous other applications.

PR-610TCF requires no special tools or special skills as does chocking with steel. When cast, CHOCKFAST ORANGE flows readily into the chock area filling voids and conforming to all irregularities. This eliminates the machining of base plates or foundations for a perfectly fitted chock.

## **Design** Considerations

For design considerations and application details please request 642 for Industrial applications or contact ITW Polymer technologies' Engineering Services Department.

## **Application** Instructions



Using open-cell foam damming material, build a dam around 3 sides of the area to be chocked. Wrap the anchor bolt with tape or cover it with Armaflex pipe insulation so the Chockfast will not stick to it. Install a metal dam along the front of the chock approximately ½" to ¾" (12mm to 18mm) from the mounting flange. Seal the flange with strip caulking, or Silicone to prevent leaks. Install foam in the overpour area to the top of the mounting flange to prevent the Chockfast from leaking.

Mix the Chockfast as directed on the can. See technical Bulletin #665 to determine the proper amount of hardener to use. Slowly pour the Chockfast into one end of the overpour area and allow it to flow across and under the mounting flange.

# **Physical** Properties

COMPRESSIVE STRENGTH	19,000 psi (1,336 kg/cm <sup>2</sup> )	ASTM D-695MOD
COMPRESSIVE MODULUS OF ELASTICITY	533,000 psi (37,482 kg/cm <sup>2</sup> )	ASTM D-695
LINEAR SHRINKAGE		ASTM D-2566

(0.0002 mm/mm) or 0.02%

17.1 x 10<sup>-6</sup>/F° @ 32°F to 140°F COEFFICIENT OF LINEAR THERMAL ASTM D-696

 $(30.8 \times 10^{-6}/\text{C}^{\circ} @ 0^{\circ}\text{C to } 60^{\circ}\text{C})$ **EXPANSION** 

FLEXURAL STRENGTH  $7,615 \text{ psi} (575 \text{ kg/cm}^2)$ ASTM C-580  $8.6 \times 10^5 \text{ psi } (72,880 \text{ kg/cm}^2)$ FLEXURAL MODULUS OF ELASTICITY ASTM C-580 4,970 psi (349 kg/cm<sup>2</sup>) TENSILE STRENGTH ASTM D-638

5,400 psi (380 kg/cm<sup>2</sup>) SHEAR STRENGTH FED-STD-406 (Method 1041)

IZOD IMPACT STRENGTH 6 in.lbs/in. (0.27 N.m/cm) ASTM D-256

Pass MIL-S-901C (Navy) High Impact SHOCK RESISTANCE Shock Test, Grade A, Type A, Class 1

Pass -0°F to 212°F ASTM D-746 THERMAL SHOCK

(18°C to 100°C) **VIBRATION** Meets MIL-STD-167

FIRE RESISTANCE Self extinguishing ASTM D-635

SPECIFIC GRAVITY 1.58

40+ fully cured - 35 minimum BARCOL HARDNESS ASTM D-2583

#### **Product** Information

Small Unit: 120 cu.in (1,966 cc) UNIT COVERAGE Large Unit: 260 cu.in (4,261 cc)

55°F (13°C) to 95°F (35°C) APPLICATION TEMPERATURE

> Small Unit: Resin (NH) - 7.2 lbs. (3.3 kg), 0.53 gal (2 PACKAGING per Unit

L) in a 1 gal can, Hardener (H) -0.5 lbs. (0.23 kg), 7.7

oz (0.23 L) in an 8 oz plastic bottle

Large Unit: Resin (NH) - 14.4 lbs. (6.5 kg), 1.052 gal (3.98 L) in a 2 gal pail, Hardener (H) -0.99 lbs. (0.45 kg), 15.49 oz (0.458 L) in an 16 oz plastic bottle

**UNIT SHIPPING WEIGHT** Small Unit: 9 lbs (4 kg) Large Unit: 17 lbs. (7.7 kg) 48 hours @ 60°F (15°C) 24 hours @ 70°F (21°C) CURE TIME (approximate) 18 hours @ 80°F (26°C) 36 hours @ 65°F (18°C)

> 30 min. @ 70°F (21°C) POT LIFE

SHELF LIFE 2 vears

CLEAN UP IMPAX IXT-59 or similar epoxy solvent

#### Reference

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

**Date** 03/2010

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