CHOCKFAST® Orange

The Premier Chocking Compound

Technical Bulletin # 659F

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.

PR-610TCF is approved or accepted for its intended marine use by American Bureau of Shipping, Lloyd's Register, Bureau Veritas, Det Norske Veritas, Germanischer Lloyd and most other major regulatory agencies worldwide.

Use & Benefits

CHOCKFAST ORANGE was developed as a chocking or grouting compound for use under marine main propulsion machinery in depths of $\frac{1}{2}$ " 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.

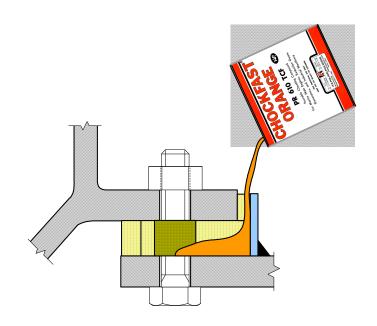
Design Considerations

For design considerations and application details please request Bulletin No. 692 for Marine and 642 for Industrial applications or contact ITW Philadelphia Resins' 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 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 ²)	ASTM D-695MOD
COMPRESSIVE MODULUS OF ELASTICITY LINEAR SHRINKAGE	, , , , ,	ASTM D-695 ASTM D-2566

(0.0002 mm/mm) or 0.02%

17.1 x 10⁻⁶/F° @ 32°F to 140°F COEFFICIENT OF LINEAR THERMAL **ASTM D-696**

(30.8 x 10⁻⁶/C° @ 0°C to 60°C) **EXPANSION**

 $7,615 \text{ psi} (575 \text{ kg/cm}^2)$ FLEXURAL STRENGTH 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/cm²) TENSILE STRENGTH ASTM D-638

5,400 psi (380 kg/cm²) 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)

Meets MIL-STD-167 **VIBRATION** FIRE RESISTANCE Self extinguishing ASTM D-635

SPECIFIC GRAVITY 1.58

BARCOL HARDNESS 40+ fully cured - 35 minimum **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), 0.53 gal (2 L) in a 1 gal can, Hardener (H) -0.99 lbs. (0.45 kg),

15.4 oz (0.23 L) in an 16 oz plastic bottle

Small Unit: 9 lbs (4 kg) Large Unit: 17 lbs. (7.7 kg) **UNIT SHIPPING WEIGHT** 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 years

CLEAN UP IMPAX IXT-59 or similar epoxy solvent

Reference

For design considerations and application details please request Bulletin No. 692, 642 or contact ITW Philadelphia Resins' Engineering Services Department.

Date

08/2005

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