Chockfast®



CHOCKFAST[®] ORANGE – TECHNICAL BULLETIN #659H THE PREMIER CHOCKING COMPOUND

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Version: H

PRODUCT DESCRIPTION

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

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

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

USE & BENEFITS

CHOCKFAST ORANGE was developed as a chocking or grouting compound for use under marine main propulsionand other machinery. The compound is used under dieseland gas engines, reduction gears, generators, compressors, pumps, bearing blocks, crane rails and numerous other applications.

Typical pour depths of Chockfast Orange between a steel foundation and a steel base are between ½" and 4" (12-100 mm) while typical pours between a concrete foundation and a steel base are between ½" and 2" (12-50mm). Chockfast Orange may be poured outside of these limits with recommendations by highly experienced installers. Please consult your local representative of the Chockfast Worldwide distributor network or the ITW Technical Services team for an in-depth application reviewand recommendations.

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 need to precision machine foundation base plates for perfectly fitchocks.

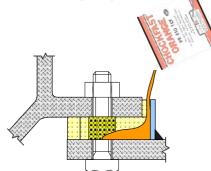
DESIGN CONSIDERATIONS

For design considerations and application details please request Bulletin No. 692 for Marine and 642 for Industrial applications or contact ITW Performance Polymers Technical 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 so the Chockfast will not stick to it, Install ametal dam along the front of the chock approximately $\frac{1}{2}$ " to $\frac{3}{4}$ " (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. To determine the proper amount of hardener to use, please see Technical Bulletin #693 for pours between steel surfacesand Technical Bulletin #665 for pours between concrete and steel. Slowly pour the Chockfast into one end of the overpour area and allow it to flow across and under the mounting flange.



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PHYSICAL PROPERTIES		
COMPRESSIVE STRENGTH	19,000 psi (131 MPa)	ASTM D695 MOD
COMPRESSIVE MODULUS OF ELASTICITY	533,000 psi (3674,91 MPa)	ASTM D695 MOD
LINEAR SHRINKAGE	0.0002 in/in (0.0002 mm/mm) or 0.02%	ASTM D2566
COEFFICIENT OF LINEAR THERMAL EXPANSION	17.1 x 10 ⁻⁶ /F° @ 32°F to 140°F(30.8 x 10 ⁻⁶ /C° @ 0°C to 60°C)	ASTM D696
FLEXURAL STRENGTH	7,615 psi (52,50 MPa)	ASTM C580
FLEXURAL MODULUS OF ELASTICITY	8.6 x 10 ⁵ psi (5929,49 MPa)	ASTM C580
TENSILE STRENGTH	4,970 psi (34,27 MPa)	ASTM D638
SHEAR STRENGTH	5,400 psi (37,23 MPa)	FED-STD-406 (Method 1041)
IZOD IMPACT STRENGTH	6 in.lbs/in. (0.27 N.m/cm)	ASTM D256
SHOCK RESISTANCE	Pass MIL-S-901C (Navy) High ImpactShock Test, Grade A, Type A,Class 1	
THERMAL SHOCK	Pass 0°F to 212°F (-18°C to 100°C)	ASTM D746
VIBRATION	Meets MIL-STD-167	
FIRE RESISTANCE	Self-extinguishing	ASTM D635
SPECIFIC GRAVITY	1.58	
BARCOL HARDNESS	40+ fully cured - 35 minimum	ASTM D2583

PRODUCT INFORMATION

UNIT COVERAGE	Small Unit: 120 cu.in (1,966 cc) Large Unit: 260 cu.in (4,261 cc)
APPLICATION TEMPERATURE	55°F (13°C) to 95°F (35°C)
PACKAGING PER UNIT	<u>Small Unit:</u> Resin (NH) – 7.2 lbs. (3.3 kg), 0.53 gal (2L)in a 1 gal can,Hardener (H) – 0.5 lbs. (0.23 kg), 7.9 oz (0.23 L) in an 8 oz plastic bottle <u>Large Unit:</u> 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)
CURE TIME (APPROXIMATE. DEPENDS ON CONTACT SURFACETEMPERATURE)	55°F - 68°F (13°C - 18°C) 48 hours 66°F - 70°F (19°C - 21°C) 24 hours Above 70°F (21°C) 18 hours
POT LIFE	30 min. @ 70°F (21°C)
CLEAN UP	IMPAX IXT-59 or similar epoxy solvent
SHELF LIFE	2 years

REFERENCE

For design considerations and application details please request Bulletin No. 692, 642 or contact ITW Performance Polymers Technical Services Department.

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