

Chockfast® Gray

Technical Bulletin # 656F

DESCRIPTION:

CHOCKFAST GRAY (PR-610FR) is a specially formulated 100% solids, two component inert filled casting compound developed for use as a chocking or grouting material. The compound is designed to withstand severe marine and industrial environments involving a high degree of both physical and thermal shock. The compound is non shrinking, non burning and has a very high impact and compressive strength. Years of successful inservice experience have shown the use of PR-610FR to be a far superior yet less expensive method of establishing and retaining precise equipment alignment under extreme conditions. When poured as a continuous chock under deck equipment, CHOCKFAST GRAY also eliminates all rat shield fabricating work as well as providing a corrosion proof moisture seal. PR-610FR is approved or accepted for its intended marine uses by A.B.S., Coast Guard, Lloyd's Register and other regulatory agencies.

APPLICATION:

CHOCKFAST GRAY was developed as a chocking or grouting compound for use under marine deck machinery, pumps, generators and steering gears. Industrially, the compound is used under diesel engines, generators, compressors, pumps, turbines, bearing blocks, crane rails and numerous other applications. PR-610FR requires no special tools or special skills as does chocking with steel. When cast, CHOCKFAST GRAY flows readily into chock area filling all voids and conforming to all irregularities. This eliminates the machining of base plates or foundations for a perfectly fitted chock.

When used as a grouting compound for shoreside machinery, the CHOCKFAST GRAY provides perfectly even support without the tedious hand packing associated with conventional cement grouts. Because the compound flows readily, much thinner cross sections can be used. The compound is also completely chemical and oil resistant, will not powder or crack with age, weathering, or freeze-thaw cycling, and will seal the mounting surfaces protecting them from deterioration. Steel soleplates and rails between the machinery and the concrete foundations are not necessary with CHOCKFAST GRAY.

Other successful applications of CHOCKFAST GRAY include mounting of crane rails, chocking of crane bull gears, chocking and grouting of precision milling machinery and sealing of cable penetrations.

ITW PHILADELPHIA RESINS

130 Commerce Drive • Montgomeryville, PA 18936 • 215-855-8450 • Fax 215-855-4688



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PHYSICAL PROPERTIES

COEFFICIENT OF LINEAR THERMAL EXPANSION: Temperature Range	30.3 x 10 ⁻⁶ /C° 0°C to 60°C (32°F to 140°F)	ASTM D-696 16.8 x 10 ⁻⁶ /F°
COMPRESSIVE MODULUS OF ELASTICITY:	36568 kg/cm ² (520,000 psi)	ASTM D-695
COMPRESSIVE STRENGTH:	1125 kg/cm ² (16,000 psi)	ASTM D-695
FIRE RESISTANCE:	Self-extinguishing	ASTM D-635
HARDNESS - BARCOL:	35-40	ASTM D-2583
IZOD IMPACT STRENGTH:	0.32 Newton m/cm (7.2 in.lbs./in.)	ASTM D-256
LINEAR SHRINKAGE:	0.0003 mm/mm (0.0003 in/in)	ASTM D-2566
POT LIFE:	30-40 mins. @ 21°C (70°F)	
SPECIFIC GRAVITY:	1.82	
TENSILE STRENGTH:	281 kg/cm ² (4,000 psi)	ASTM D-638
PACKAGING (<u>Nominal Wt.</u> , Actual Volume):	"11 lb." - 3.06 liters (187 cu.in.) "48 lb." -13.37 liters (816 cu.in.)	
CURE TIME:	18 hrs. @ 30°C (85°F) 24 hrs. @ 18°C (65°F)	
SHOCK RESISTANCE:	Pass MIL-S-901C (Navy) High Impact Shock Test, Grade A, Type A, Class 1	
THERMAL SHOCK:	Pass -6.5°C to +93°C (20°F to 200°F)	
VIBRATION:	Pass 33 cps @ 0.51mm (0.02 in.) amplitude Total cycles 237,600	
CORROSION RESISTANCE:	Pass FTM 151A @ 96 hrs. 0.5% NaCl 35°C (96°F) Fog	

For additional information see Bulletin No. 692, "Guidelines for Marine Designers".