

Product Data Sheet: CarbonBond PTC



CarbonBond Pourable Transom Compound (PTC) is a specially formulated, polyester based ceramic filled pourable compound developed by Carbon-Core Corporation for manufacture of net shape transom coring in powerboat hulls and cavity filling where high compression values are needed. Use of premium resins results in high tensile and flexural strength. Its high adhesive strength provides an excellent bond between the bonded substrates. Consult MSDS for additional handling, storing and safety information. The absence of wood in powerboat transoms is a marketing advantage.

CHARACTERISTICS

- ◆ Excellent rigidity and strength
- ◆ Formulated with premium resins
- ◆ Low shrinkage and exotherm
- ◆ Low styrene content
- ◆ 7 time better compression strength than plywood
- ◆ 90 day shelf life from date printed on pail
- ◆ 5 Gallon pails (45lb)

DESCRIPTION

Carbon-Core formulates its Ceramic Pourable Compound with premium polyester resins and high strength ceramic spheres resulting in high tensile and flexural strength. This lightweight compound is ideal for filling large volumes where strength and rigidity are major concerns. The CarbonBond Ceramic Pourable Compound mixes and pours easily from the 5-gallon pail. Compound mixes and pours easily from the 5-gallon pail.

PROCESSING

- ◆ Catalyze with MEKP (see chart on page 2)

All tests carried out by independent laboratory. This information is provided in good faith and is subject to modifications without prior notification. It does not constitute a commitment, neither a contractual document. Carbon-Core Corp will not assume any liability from use or misuse of data presented herein. Assessment of suitability is the responsibility of end user only.

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General & Mechanical Properties	Carbon-Bond
Color	Grey
Gel Time	18-24 min
Weight per Gallon/Liter	7.1-7.3 lbs/ gallon or 0.85 kg/l
Working Time(1/32" thick@88F shop temp)	38-52 min
Peak Exotherm	150-180°F
Tensile Elongation	9.14
Tensile Strength	1594 psi
Viscosity @ 2.5 rpm	85000min cps 105000max cps
Viscosity @ 20 rpm	25000 min cps 38000 max cps

Amount of Catalyst Needed					
Material Temperature	% by Weight	gm/gal	gm/5gal	cc/gal	cc/5gal
60-65°F	2.00	66	323	63	310
65-70°F	1.80	59	290	57	279
70-75°F	1.60	53	258	51	248
75-80°F	1.40	49	242	47	232
80-85°F	1.20	39	194	38	186
85-90°F	1.00	33	161	32	155
90-95°F	0.80	26	129	25	124

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