

Product Benefits

- Increases the force-load energy absorption in concrete, thus its load-bearing capacity under service or design parameters
- Reduces crack-induced fragmentation
- Optimizes concrete's durability and toughness
- Replaces conventional steel in many applications
- Saves time and money while improving performance
- Reduces weight while improving strength
- When used without steel--with or without basalt fiber rebar--increases resistance to rust and corrosion
- Extended lifecycle testing proves no corrosion after twenty years
- Alkali resistant
- Chemical resistant
- Blast and impact resistant
- Mixes well in concrete
- Non water soluble
- Excellent finishability
- Lighter weight can reduce shipping costs
- Tested in accordance with ASTM C1069

ASTM C1609	f'_{P}		f'_{150}		T_{150}		$F_{e_{3mm}}$		R_{e_3}
Dosage	psi	MPa	psi	MPa	in-lbs	N-m	psi	MPa	%
5 lb/yd ³ (3 Kg/m ³)	585	4.0	90	0.6	183	20.7	127	0.9	23
7.5 lb/yd ³ (4.4 Kg/m ³)	595	4.1	165	1.1	283	32.0	198	1.4	36

Dosage Rates

Our engineer will review your cross section drawings and recommend dosage rates that are customized for each of your product castings.

Built In Performance

SafeTcrete® Precast Structural Fibers are part of a patent pending reinforcing system, engineered to increase ductility and flexural performance of cementitious products. They are an ideal component for any precast concrete product. They contribute to a stronger, more durable, lighter weight casting. They may be used with reduced amounts of conventional steel rebar, or in some applications they may completely replace steel rebar.

Product Characteristics

Specific gravity	1.16
Fiber configuration	Bi-component Proprietary coating over plied strands
Fiber length	63.5mm (2.5")
Color	Natural
Alkali Resistance	Excellent
Absorption	Coating: Nil Plied strands: 3 - 5%
Melting point	Coating: Does not melt Plied strands: 220°C (428°F)

Applications

Product characteristics lend it to a variety of concrete applications, including: precast concrete, septic tanks, pipes, slabs, jersey barriers, walls, paving, corrosive area placements, blast containment structures and many other specialty concrete situations.

Mixing

SafeTcrete® Precast can be added directly to the mix at the casting site or while batching. However, SafeTcrete should not be the first ingredient. It should be mixed for a minimum of five minutes at full mixing speed.