Composite of Aggregates used in Polymer Concrete

< 0.06 mm	12%
0.06 to 0.6 mm	12%
0.6 to 1.0 mm	15
1.0 to 1.0 mm	20%
1.5 to 3.0 mm	35%
3.0 to 6.0 mm	6%

Maximum size aggregate used in polymer concrete is usually below 7.0 mm.

REICHHOLD

Bringing Solutions to the Surface

Typical Formulation

• Polyester Resin (unpromoted)	11.0 parts
• Cobalt 12%	0.2%
• Dimethylaniline	0.1%
• Superox® 46709	1.25%
• Pigment TiO_2	1.5 parts
• Silica Flour 270	21.5 parts
• Stone 3/16 inch	22.0 parts
• Stone 1/16 inch	22.0 parts
• Granite Chips	22.0 parts

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The addition of a very fine large surface area fine filler should be added to the matrix system including microcrystalline silica to improve particle packing. The smaller size aggregates and fillers can help flow, strength, creep and stiffness.

Two tested in the past were Granusil 100 and Tamsil T10 by Unimin[1] Corp.

Fiberglass, milled fibers and polyester fiber reinforcement can be added to improve strength

[1] **Unimin Corp 258 Elm St New Canaan, CT 06840-5309 Phone: (203) 801-3048**