



Solid-Cast-Polymer is an advanced, polymer composite

material-of-construction.

Solid-Cast-Polymer Exhibits

- Superior Physical Properties
- Corrosion Resistant
- Impermeable
- Rigid/Durable
- Lighter-Weight
- Reinforced
- Environmentally Responsible

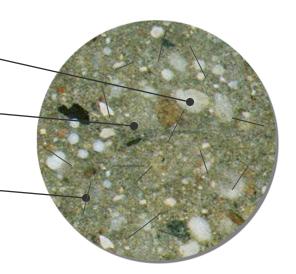






Solid-Cast-Polymer products are made from:

- > Chemically inert mineral fillers
- Polymer resins (No VOC, No HAP, No Styrene)
- Select Reinforcing Media (Recycled/Reclaimed)



Solid-Cast-Polymer does not contain Portland cement!





Physical Properties SON



Superior Physical Properties

- Compressive Strength: 15,000+ psi (ASTM C-596)
- Tensile Strength: 1,800+ psi (ASTM D-307)
 - Flexural Strength: son 4,200+ psi (ASTM C-580)
- Modulus of Rupture: 2,500+ psi (ASTM C-580)
- MOE: 3.5 x 10⁶ psi (ASTM C-580)
 - Water Absorption: 0.1%

(Based on average test data compiled)







PC





Corrosion Resistance





300+ Year Life Expectancy

(ASTM C-580) - 3,000 Hr. Chemical Exposure Test























Corrosion Resistance

P



LOS ANGELES COUNTY TEST

503 DAYS: 10% SULFURIC ACID and

5% SODIUM HYDROXIDE

378 DAYS: HEAD SPACE OF DISTRICT SEWER



CITY OF LOS ANGELES GREEN BOOK TEST

20% SULFURIC ACID and 5% SODIUM HYDROXIDE















Corrosion Resistance

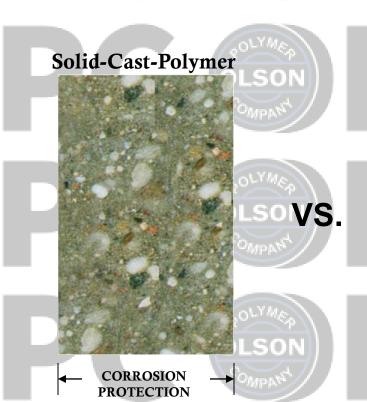


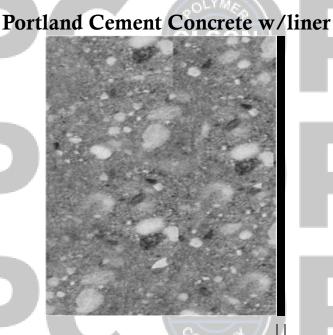


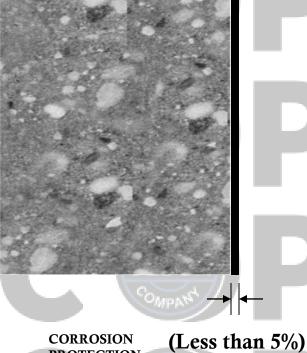


















SolidCast Polymer Technology



Impermeable







SCP is completely non-porous

- Eliminates ground water infiltration
- OLSON COMPASE
- Eliminates sewage exfiltration
- Requires no special linings or coatings inside or out
- OLSON COMPAGA
- Requires no seams or welds
- Encapsulates recycled fiberglass











PC





Rigid/Durable



P



SCP structures (manholes & pipe) require no special bedding OLSON OLSON

SCP structures are durable, ductile and resilient

OLSON COMPART SCP always maintains its shape especially during installation











Reinforced



Steel reinforcement facilitates thinner-walled structures





Solid-Cast-Polymer Applications

Methods of Construction

SCP Precast



SCP Cast-In-Place

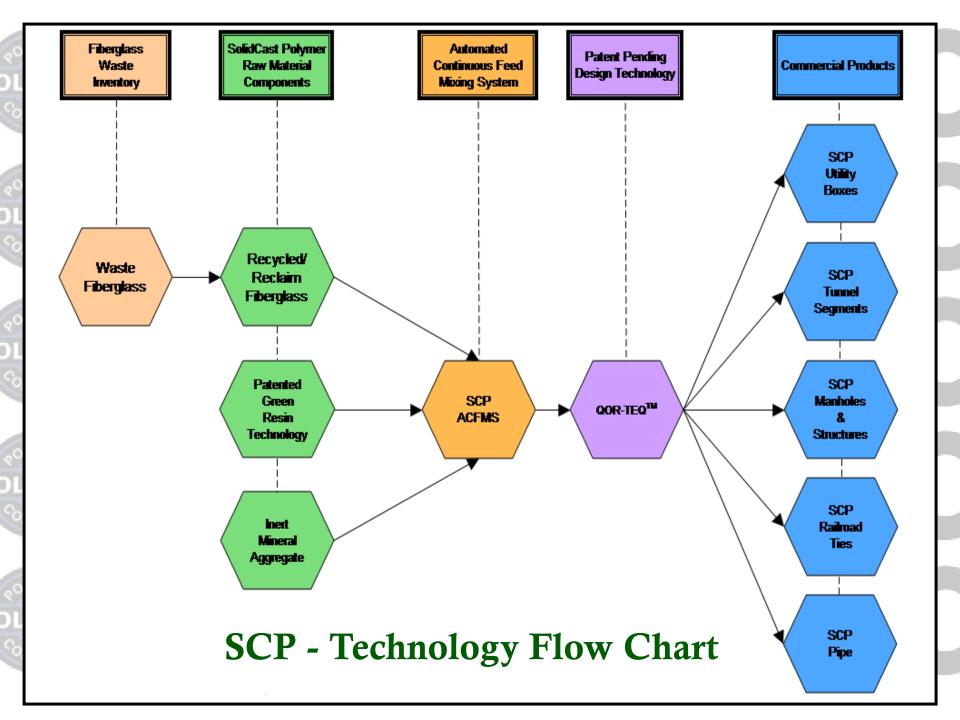






SCP Green technology is the advancement of a cost-effective, non-hazardous, recycled, renewable material-of-construction







Solid-Cast-Polymer Technology

Key Components

- No VOC Resin Technology
- Recycled/Reusable Fiberglass
- ACFMS (Automated Continuous Feed Mixing System)
- QOR-TEQ™





Solid-Cast-Polymer Technology No VOC Resin Technology



Patented Environmentally Responsible Thermosetting Resins

- No solvents and is odor-free
- No shrinkage 100% solids
- No Environmental Compliance Issues
- No VOC's or HAP's means no hazardous waste
- Faster cure time reduces installation time allowing greater output.
- NOVOC® resins are Non-Regulated Non-Flammable OSHA Class 3B.







Solid-Cast-Polymer Technology Recycled/Reusable Fiberglass

Reclamation Harvesting

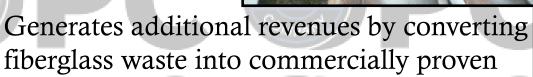
Reduces fiberglass hazardous waste

Lowers SCP raw material costs









Solid-Cast-Polymer products







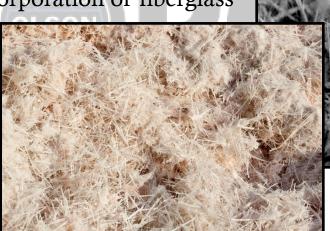
Solid-Cast-Polymer Technology Recycled/Reusable Fiberglass





Features & Benefits

- ➤ Maintains the structural integrity of fiber
 - ³/₄" to 1" length fibers
- > Reduces dust accumulation
- ➤ Allows for reincorporation of fiberglass







- > Reduction in landfill costs & eliminates disposal fees
- Lowers SCP raw materials cost





Solid-Cast-Polymer Manufacturing



(ACFMS) Automated Continuous Feed Mixing System

Manufacturing process utilizes state-of-the-art ACFMS

Alternating Mixing Process

ACFMS is a weight-based system designed to produce within 1.5% of accuracy

ACFMS designed to produce 1,000+ lbs/min.

• Rapid cure system facilitates fewer molds

Manufacturing plants require no permitting or

reporting of hazardous materials

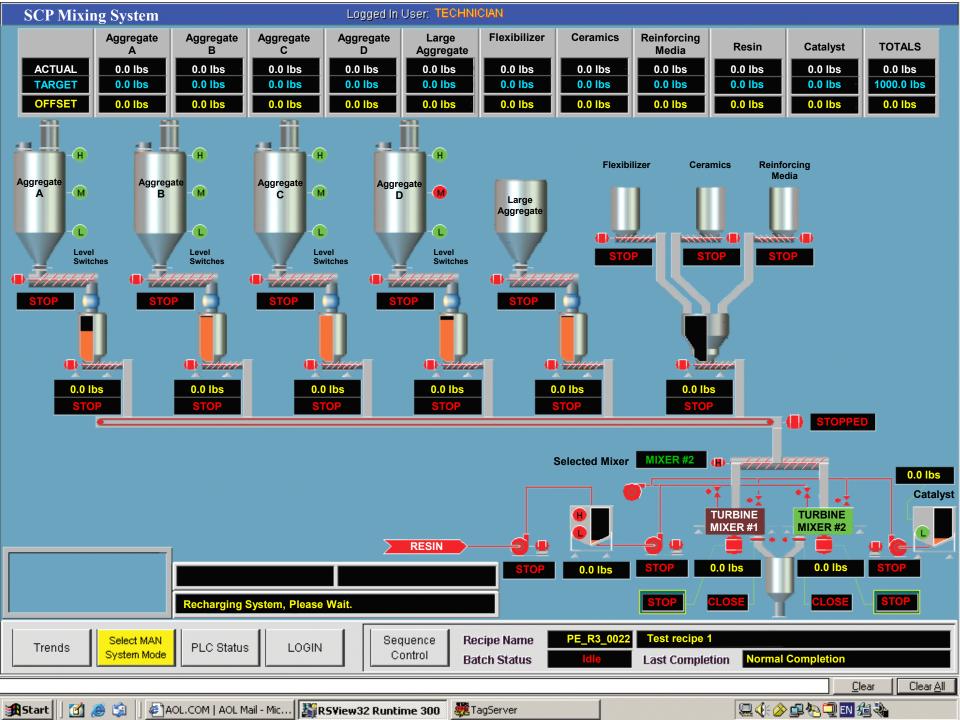














Solid-Cast-Polymer Manufacturing





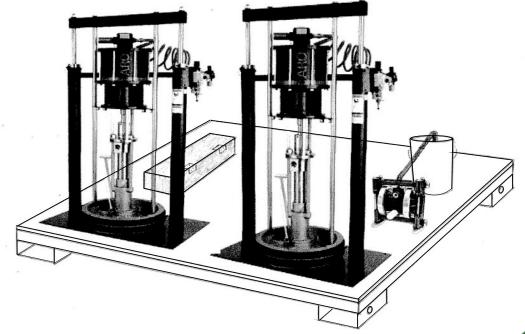








CP Ultra Light Weight Castable Pumping Station







Solid-Cast-Polymer Markets









Industries

- Chemical Processing
- Metals Refining
- Water & Wastewater
- Transportation
- Food & Beverage
- Semi-Conductor
- Electrical Utility







Solid-Cast-Polymer 30 Years of History









Solid-Cast-Polymer 30 Years of History 1000



Metals Refining – Electrolytic Cells





Solid-Cast-Polymer 30+ Years of History Solid-Cast-Polymer



Sanitary Sewer – Pipe & Manholes





Solid-Cast-Polymer 30 Years of History 10 Years of History 10 Years of History 10 Years of History





Sanitary Sewer - Tunnel Segments





Solid-Cast-Polymer Life-Cycle Cost OLSON

م م	MANHOLE COST	LABOR COST	INSTALLED COST	REPLACEMENT COST	OVERALL COST
UNLINED CONCRETE	\$3,400	\$1,500	\$3,100	\$6,500	\$9,600
LINED with T-LOCK	\$6,800	\$1,500	\$4,500	\$6,500	\$11,000
Solid-Cast- Polymer	\$7,000	\$1,200	\$4,900	\$0	\$4,900

INSTALL SOLID-CAST-POLYMER MANHOLES

AND YOU SAVE \$\$\$\$!

* Manhole Cst. (Based on 48" ID x 10'D Manhole)





Solid-Cast-Polymer 30 Years of History 10 Years





Transportation – Railroad Ties





Solid-Cast-Polymer Technology Total Value Proposition



Waste Recycling & Reclaiming

- ➤ Eliminates storage, landfill & transportation costs
- ➤ Lower raw material costs
- Recycling Revenues from other Fiberglass Producers



Diversify Product Line

- ➤ Commercially Proven SCP Systems
- **Patented Resin Technology**
 - > Environmental Responsible Systems Engineering



- Innovative & Patent Pending SCP Design Technology
- **Automated Mass-Production Plant**
- Superior Corrosion Resistance and Physical Properties
- 30 Years of Experience & Proven Technology



300+ Years "Peace of Mind"













