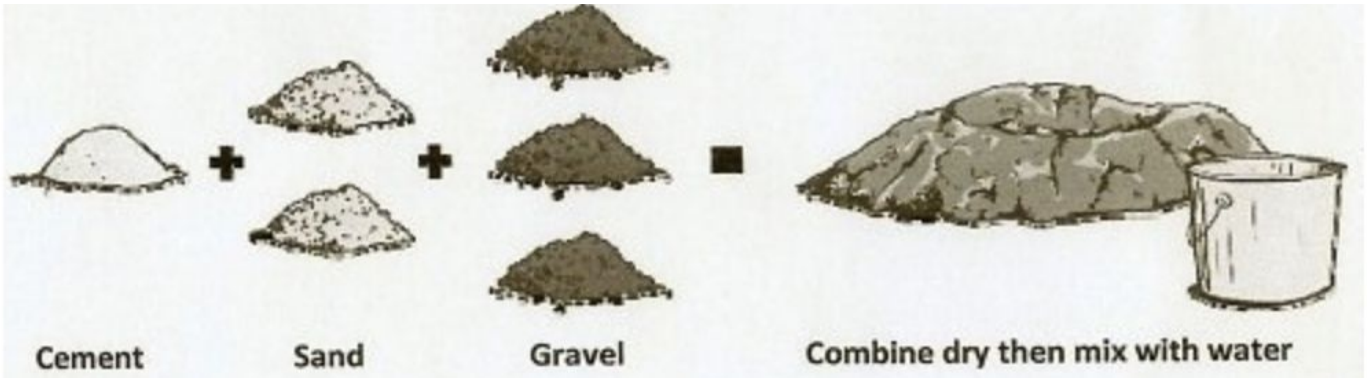
Estacron - Overview

January 2021

Estacron

- Patented cementitious mixture superior to traditional concrete in certain applications
- Uses proprietary mix designs which replace a percentage of traditional aggregates with industrial recyclable materials
- Achieves compression and tensile strength goals by supplementing cement with SCMs, is lighter than traditional concrete
- Green on the environment – a significant reduction in carbon footprint



Traditional Concrete Mixture

Concrete vs Estacron

Traditional Concrete

CEMENT SAND GRAVEL WATER

Estacron

- Significant reduction in cement, concrete sand and stone in certain applications
- Recyclable material supplants some of the heavy aggregates
- More resilient and less permeable than traditional concrete

Estacron Advantages

- More refined mix, stronger than concrete (in certain applications)
- Easier to handle and transport, typically lighter than concrete
- More economical than concrete through the use of recyclables
- Positive environmental impact
  - Up to 30% reduction of CO_2 by using Estacron (8% of CO_2 emissions to atmosphere are from concrete*)

(Think tank Chatham House - https://www.bbc.com/news/science-environment-46455844)*

Estacron Properties

- Superior Thermal Properties vs Concrete
- Will not shatter under compression failure, but deforms (US Army testing labs)
- Improved workability and flow
- Impervious to Sea Water
- Measurable reductions of Greenhouse Gas footprint

Compression Failure

Air Force Engineering Center

Conclusion after testing:

"Structural integrity of Estacron material…would be of value in earthquakes (and explosions) since many buildings would not be in total collapse….loss of lives and goods may be minimized."

Estacron is Proven

- Invented 30 years ago – Awarded a patent in 2008 - significant testing done and 74 ASTM approved mixes
- Commercial application ramp-up in 2020 – Beta Test, major pre-cast operation
- Commercial launch 2021. 25 Commercial pours

Beta Site in New York State

- 25 Pours conducted Q4 2020
- Low, medium, high density designs
- Various slump and workability mixes

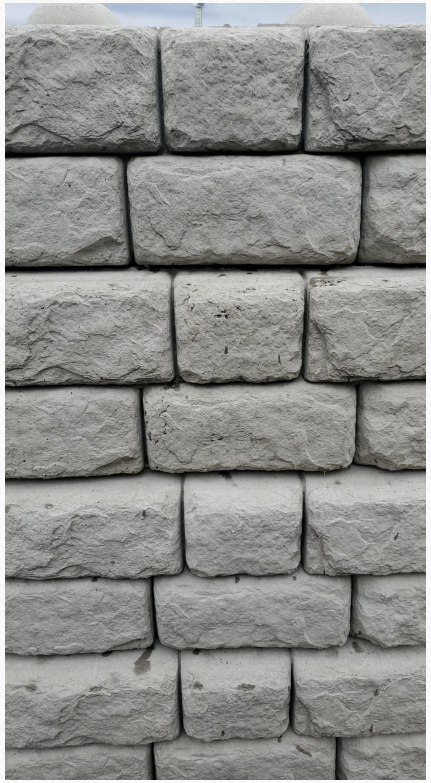
Mixes Poured	Slump	7 Day PSI	28 Day PSI
Mix A	2 ½	3980	4380
Mix B	8 ¾	5490	6050
Mix C	10	3460	4000
Mix D	8 ½	4970	

Results Achieved through 25 commercial pours - Example

Major Mix Elements	Traditional Concrete	Estacron	Weight Savings
Portland Cement	630 lbs	366 lbs	42%
Aggregates	1400 lbs	600 lbs	57%
Sand	1450 lbs	1450 lbs	NA
Proprietary Mix Design	NA	400 lbs	NA
Water, air, additives	520lbs	403 lbs	22%
Total Weight	4000 lbs	3219 lbs	19%
7 Day PSI		4970	

One Example – Precast Sea Wall Block

Commercial Sales



Next Steps

- NDA to be signed with inventors
- Provide Mix Designs, application information and expected volume
- Projected cost savings calculated
- Pricing to be agreed for material and use of material
- Contract signed and first orders placed

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