RESIN8

THE CONCRETE SOLUTION TO PLASTIC WASTE

CRDC GLOBAL

STRATEGIC VISION

TO MAKE A SIGNIFICANT GLOBAL IMPACT ON THE PLASTIC CHALLENGE BY RECOVERING AND CREATING VALUE FROM **ALL** PLASTIC WASTE.

BEYOND PLASTIC:

RESIN8 not only ends plastic waste in the environment, it **reduces CO_2** emissions and **stimulates community renewal** through social and commercial construction projects.

THE PROBLEM IS CLEAR

- Only **9.5%** of plastic waste is being recycled
- The remaining **90.5%** is incinerated or ends up in landfills or the ocean
- More than **150 million tons** of CO_2e of greenhouse gases emitted per year are due to plastic incineration

THE SCALABLE SOLUTION IS HERE

RESIN8™ IS A BREAKTHROUGH CONCRETE MODIFIER MADE FROM MIXED PLASTIC WASTE

ACCEPTS

All types of mixed & dirty plastic waste (Resins 1-7)

CONVERTS

To a high-value aggregate that **perfectly simulates construction sand**

IMPROVES

The structural, thermal and environmental properties of concrete products

PRODUCT APPLICATIONS

ALL STRUCTURAL AND NON-STRUCTURAL CONCRETE PRODUCTS
(Typically between 3%-25% aggregate replacement)[1]

Concrete blocks & pavers

Pre-cast concrete

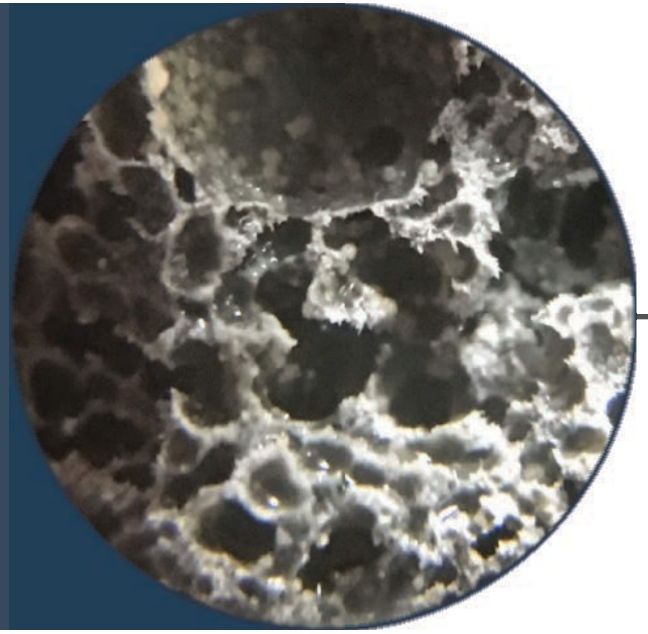
Poured in place concrete

1. Structural applications utilize between 3%-10% RESIN8 replacement of aggregate. Non-structural applications utilize up to 50% RESIN8 replacement of aggregate.

COMPETITIVE ADVANTAGES

RESIN8™ IS THE ONLY MATERIAL FROM PLASTIC WASTE TO MEET AND EXCEED THE NEEDS OF THE CONSTRUCTION INDUSTRY

Porous composition and gradation of **RESIN8™** improves both the mechanical and chemical bond to cement



- MAINTAINS STRENGTH[1]
- MAINTAINS FIRE RESISTANCE[2]
- MAINTAINS APPEARANCE
- REDUCES WEIGHT
- IMPROVES INSULATION
- REDUCES CARBON EMISSIONS[3]

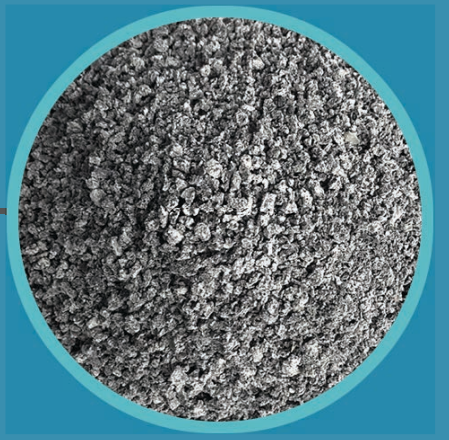
1. Based on ASTM International standards testing.
2. Based on ASTM E119 Testing on concrete blocks containing 5% RESIN8™
3. As a global average, 1 ton of plastic waste diverted from landfill & incineration is equivalent to 460kg CO_2e removed from the environment. LCA for RESIN8™ in progress.

PATENT-PENDING PROCESS

PLASTIC WASTE IS PRE-CONDITIONED AND HYBRIDIZED

1. A primary shredding and dry cleansing process sanitizes waste plastic without water, killing any microbial pathogens

2. A secondary heat extrusion process creates an environmentally benign hybrid mineral-polymer that bonds chemically to cement



PATENT-PENDING PROCESS

RESIN8

1. Waste plastic is shredded
2. $Ca(OH)_2$ & ash added
3. Mix is fed through extruder
4. Extruded material granulated

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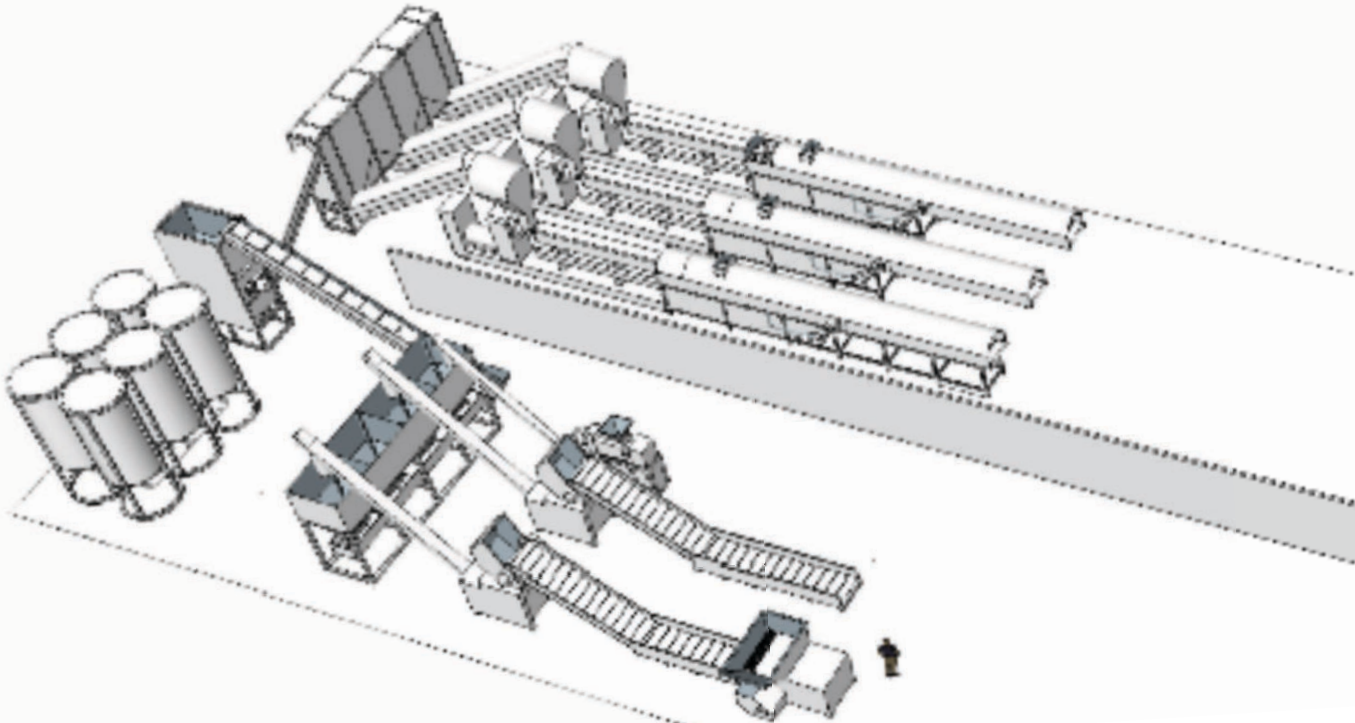
OFF-THE-SHELF EQUIPMENT

LOW CAPEX

GLOBALLY SCALABLE



REAP

WE ARE GUIDED BY OUR GLOBALLY RECOGNIZED BUSINESS PROTOCOL

RECOVER. ENRICH. APPRECIATE. PROSPER.

Inspired by bio mimicry, REAP looks to create collaborative relationships between diverse industries, where the waste stream of one becomes the value stream for the next; where the yield of the output is greater than the sum of all the inputs; and finally, where consumption becomes regenerative.

The Circulars 2016 FINALIST People's Choice Award thecirculars.org — WORLD ECONOMIC FORUM

A People's Choice Finalist
"Best-in-Class Example"
of the Circular Economy

DOW®

RESIN8 &CRDC: 2020 Winner
of the DOW Impact Award

Recover
Waste Remediation

Enrich
Durable Products

Appreciate
Quality Assets

Prosper
Increased Yields

BUILDING NEW STRATEGIC PARTNERSHIPS WORLDWIDE

Waste Management

- GP Georgia-Pacific
- Viridor
- AVERDA
- WastePlan recycling services & waste management
- GCX

Concrete & Construction

- PEDREGAL BASE SOLIDA DE SU CONSTRUCCION
- MARTIN & EAST
- FIZZANO BROTHERS
- CEMEX ventures
- Cape Concrete
- NATIONAL NCMA CONCRETE MASONRY ASSOCIATION

Plastic & Packaging

- Braskem
- DOW
- Reynolds
- Coca-Cola
- PEPSICO
- Tiger Brands
- MONTROSE MOLDERS CORPORATION

NGOs & Foundations

- Habitat for Humanity®
- Ocean Recovery Alliance
- THE LITTERBOOM PROJECT
- HCF HOWELL CONSERVATION FUND

PLASTIC RECOVERY - EMISSIONS REDUCTION - SOCIAL DEVELOPMENT

Image: housing built in Costa Rica using RESIN8™. In collaboration with Pedregal, Habitat for Humanity and Dow.