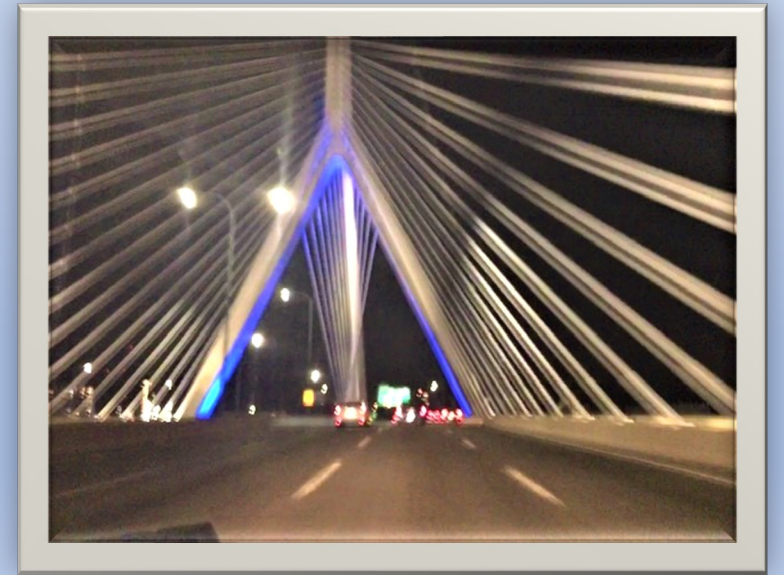


# Introducing The Ceramic Cement Corporation(C3) EcoC3 Research Alliance

Cementing The Future Of Eco-Friendly, Superior Quality Concrete

***Our Mission: Researching, Inventing & Creating High-Strength, Eco-Safe, User-Friendly, Durable, Portland Ceramic Concrete For the 21<sup>st</sup> Century & Beyond***



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# The Dawning Of A Durable, High Strength, Eco-Safe, Portland Ceramic World!

- The need for superior quality, eco-friendly, durable, multi-purpose, CO2 reducing concrete materials has never been greater, or more widely recognized! In the context of the carbon credit benefits our C3Ceramic cement products provide, the wide-ranging CO2 reduction, sequencing, recycling benefits our EcoC3 research team has revealed is factual and impressive!
- To meet the challenge of removing the CO2 negativity associated with traditional limestone-bonded Portland concrete our EcoC3 research team has independently invented, globally patented & industry verified unique calcium-silicate ceramic cement formulas with unparalleled carbon reducing, superior quality performance parameters. Non-toxic, fly ash free, high strength, water-activated formulas produced and applied using traditional Portland production/application technologies. Thereby, not revolutionizing or eliminating traditional Portland concrete and instead evolving the use into superior quality, eco-safe Portland Ceramic concrete.
- Representing 20+ Years of dedicated R&D, product testing, market entry evaluation, working with Universities and National Laboratory Research / Testing Programs. Inclusive of independently securing multiple U.S. & foreign patents. With all commercial rights exclusively managed by the Ceramic Cement Corporation(C3)

# It All Begins With DesignRok™

## A Uniquely Advanced, Eco-Safe, Multi-Purpose Ceramic Cement

Our high strength, user-friendly, water-activated DesignRok cement provides a wide range of multi-aggregate, mineral, metal, cellulose bonded formula options. Including infrastructure repair / replacement, versatile construction uses, full spectrum radiation shielding, color fast polished concrete flooring, sinks, countertops, mold, moss, bacteria resistant showers, bathtubs, swimming pools, tile, heat, cold, water, weather protected surface coatings, and the list goes on.





Traditional Portland concrete construction of a nuclear energy plant

### Introducing X-Rok™

With the completion of our U.S. Dept. of Energy nuclear shielding program and receipt of our chemically-bonded ceramic cement patents in the U.S., Canada, Mexico, China, Japan, Israel, S. Korea, Britain, all EU countries, with patents pending in India and other nations, our non-toxic, eco-safe, high strength X-Rok radiation shielding / containment materials are increasingly being recognized as significantly advanced, multi-purpose radiation protection materials.

- Providing unique, problem-solving solutions for all forms of life-threatening radiation ranging from nuclear shielding, radiated waste solidification, lightweight spacecraft shielding, protecting homes and communities from RF, EMF, Wi-Fi, Microwave, X-Ray, Gamma, Neutron shielding emission. X-Rok's versatile, user-friendly, time saving ceramic concrete / coating values include durably repairing nuclear facilities, safely containing radiated waste, replacing the toxic lead in X-ray units, and protecting homes, communities, cities from EMP, Wi-Fi, Cell Phone Tower, 5G dangers.

- An example of X-Rok's multi-purpose value; our C3 team is collaborating with the International MoonBase Alliance to create a prototype cosmic radiation protected moon surface dwelling. Until X-Rok appeared it was thought human occupied moon structures would be restricted to underground cave dwellings.

# Decorative/ Flooring Applications

**DekoRok™** - Ceramic Cement bonded decorative formulas providing a wide range of non-toxic, high strength, color-fast applications. Including polished concrete flooring, sinks countertops, showers, bathtubs, swimming pools, tile, wall coatings. C3 is fortunate to have a long-standing alliance with the Cody James Construction Group (<https://codyjames.com/>), specialist in all forms of concrete application, including as these beautiful DekoRok decorative pieces illustrate.

**DekoCeramic Polished flooring**



**Tabletop made with waste coffee grounds**



**Multi-aggregate Countertop samples**



**Crushed Marble Piece**

## A couple of our C3 pre-market entry Portland concrete repair studies....

### Heavy Equipment Concrete Yard Repair: Seattle, WA.

The main yard of this large construction equipment sales / maintenance facility needed constant repair. With 100's of heavy equipment vehicles constantly moving through the grounds damaging the Portland concrete, requiring repeated repair.

The picture to the far right shows a small section of the yard after 9-years of EkoRok protected traffic. The contractor, Cody James Construction (<https://codyjames.com>) has intermittently repaired other sections with the same durable, non-cracking result.



Nine-years after EkoRok repair, no spalling, no cracking

*EkoRok / WSDOT I-5 freeway repair near Olympia, WA., successfully completed in rainy, near freezing weather.*

### MISSION IMPOSSIBLE: Orlando, FL. The Issue:

A storm drain constantly being damaged by large vehicles, buses and trucks cutting too close to the corner, breaking off the top cover of the drain. Bringing maintenance crews on site every month doing repairs. Sometimes within a couple of weeks. This drain also flows into a lake now benefited by EkoRok 's non-toxic, no runoff, ground water pollution value. Thereby, making the securing of eco-safe permitting much easier. With EkoRok's quick-return-to-service, 3hr. 5000psi set times economically translating into bottom line time / cost savings. Inclusive of providing metal protection by bonding too and reinforcing the corroding rebar embedded in the storm drain surface, enabling the structure to remain in place, more durably and reliably safe.



# Our C3/Seattle Aquarium Ocean Restoration Project

**MarineRok™** – Within the multiple problem-solving solutions our C3 Ceramic Cement formulas provide, with the appreciated help of the Seattle Aquarium we are studying the use of our acid/salt resistant C3Ceramic formulas for a wide range of non-toxic ocean restoration benefits.

## *Seattle Aquarium MarineRok Coral / Abalone Growing Project*



# EcoC3 Research & Development

## Research & Development:

- **Earth-Cycle Technologies** – Our EcoC3 Research team has identified several independently developed, state-of-the-art technologies that demonstrate a unified potential to cost-effectively process local waste streams as well as naturally occurring material resources into a wide variety of useful, eco-safe, life-enhancing raw materials, including bio-fuel.
- **InkRok** – Geo-Ceramic formulas designed for 3D printing that have been preliminarily examined at the University of Washington Materials Lab. With initial results indicating the increased strength, durability, surface protection, non-toxic benefits our self-bonding InkRok formulas provide appear to be game-changing for 3D printing.
- **SurfaceRok** – Geo-Ceramic coatings that provide a variety of benefits ranging from non-toxic, non-cracking, severe weather/high heat/fire protection and trowel-on / spray-on applications, to creating beautiful, multi-aggregate, multi-color decorative surface coatings.
- **EkoBlend** – In conjunction with 3i's Technologies C3 is developing an IT controlled ceramic cement blending system with the ability to go directly from (1) the local assembly of raw materials, (2) into quality blended ceramic cement materials placed in bags & super sacks, or (3) moved into a separate chamber, water-activated, slurried, and placed in 3D printed plastic molds to create fast-setting, eco-friendly, high strength building products ready for use in a few hours rather than days.

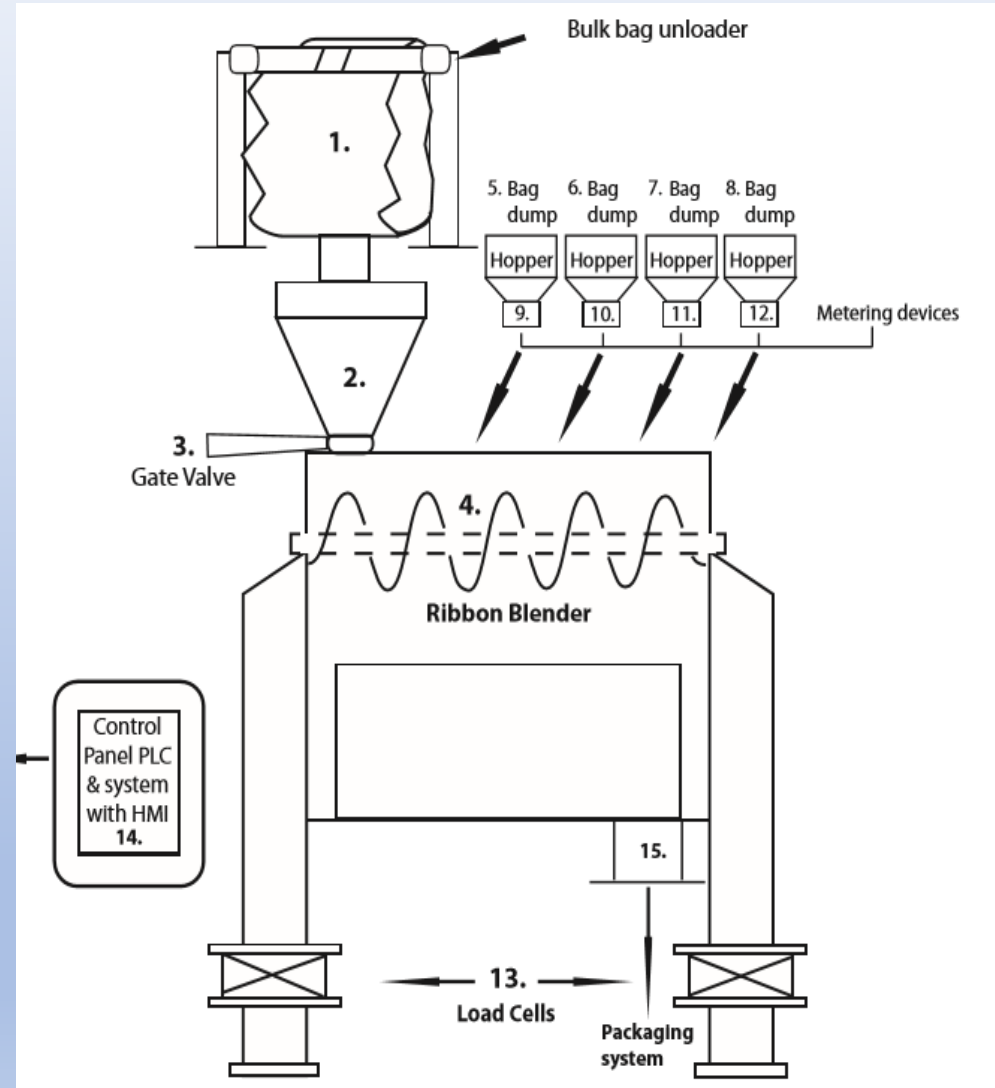


# EkoBlend Mixing / Bagging / Ceramic Concrete Product Making System

Our C3 / 3i Technologies Research Alliance, Headed Up By John Pettit, Has Designed An IT Monitored 10-ton to 180 Ton Per Day Batch Plant That Quality Produces Raw Materials Into Multi-Aggregate Ceramic Concrete Blends. With The Unique Option To Move The Blended Materials Into 3D Printed Molds That Create A Wide Range of Ceramic Concrete Building / Construction Products That Are Solidified And Ready To Use In A few Hours.

C3's IT automated EkoBlend system quality blends raw materials into ceramic cement concrete formulas that are placed in 50 lb. bags, buckets, or supersacks. With the unique option to transfer the blended formulas into a chamber that water-activates the dry mix into a slurry placed in specifically designed 3D printed plastic molds that quickly (3-hr.'s) solidifies into a variety of eco-friendly ceramic cement building blocks, building panels, tile, counter tops, kitchen / bathroom fixtures, etc.

From raw materials to quality blended, mixed, and hardened ceramic concrete building products that are released from the plastic molds and ready to package, ship, or use in a few hours rather than days.



On the front end an optional pulsewave resonance material processing system can be added that dehydrates, finely powders, & purifies the mineral, metal, and cellulose aggregate materials being fed into the batch plant hoppers to speed up the gram-by-gram, IT controlled quality blending the EkoBlend system provides. The system that forms the basis of the multi-aggregate processing system can be viewed at <https://www.pulsewavesciences.com>

With the aggregate processing system leading the way, the IT metered and monitored EkoBlend production system blends up to 180 tons per day into quality produced ceramic cement concrete. If more than 180 tons a day is needed a second EkoBlend system can be added.

# EarthCycle Technologies

Creating the immediate future

**Everything this presentation illustrates ultimately depends on cost-effectively producing our own quality raw materials. A priority market entry issue our EarthCycle Technologies team has invested many years successfully addressing. An example of this critically important work is illustrated in the following slides featuring a uniquely valuable source of raw materials located in E. Washington State. C3 is presently negotiating the acquisition of the previously unrecognized, significantly valuable waste MgO site. Inclusive of working with the Wash. St. Ecology Dept. to reopen a nearby, massive 1200-acre raw material processing / manufacturing plant. These resources alone will provide C3 with an endless stream of all our essential raw materials.**

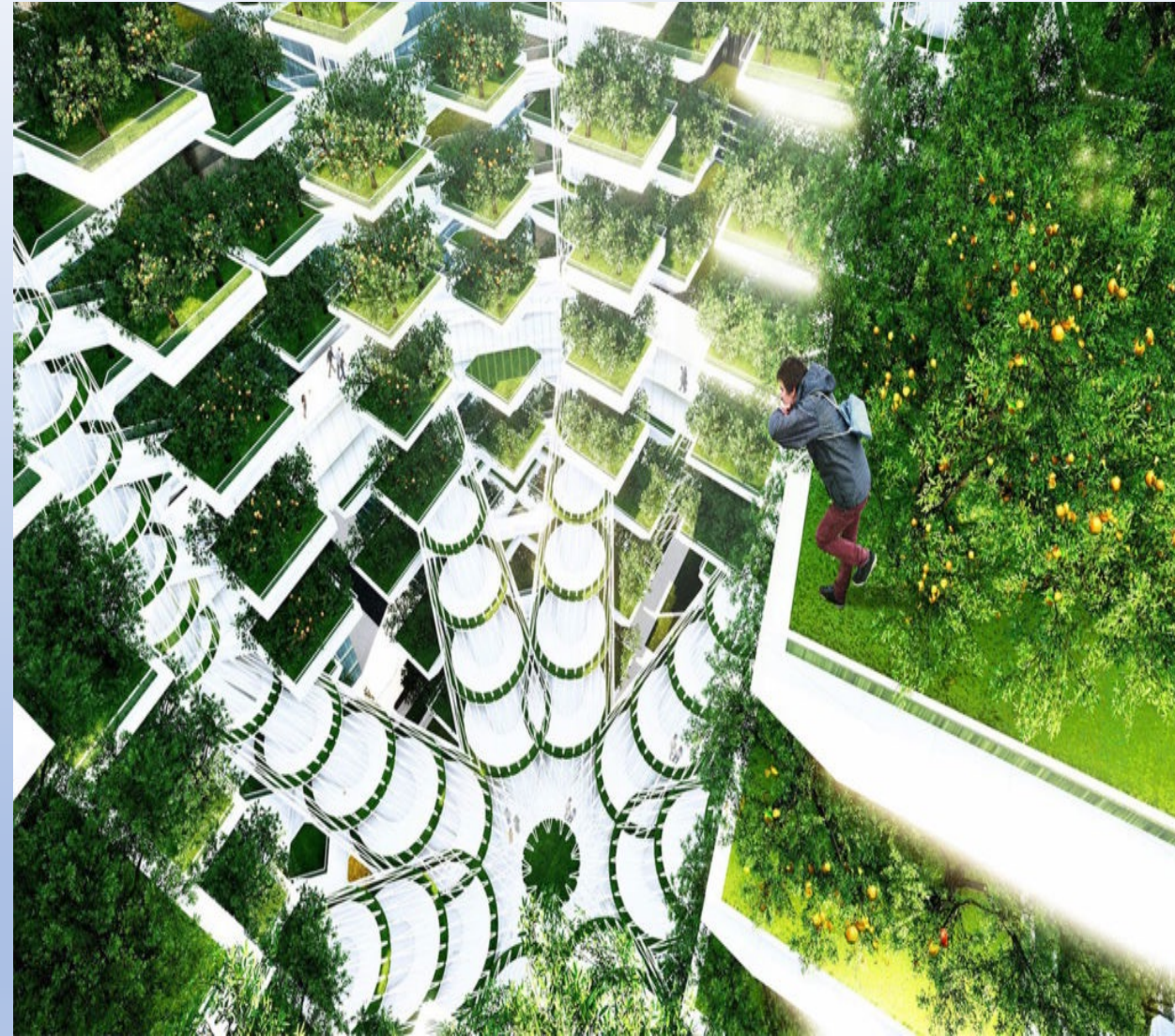


# Creating Self-Sufficient, Self-Sustaining, Eco-Friendly Living Systems

Within our dedication to creating superior concrete products our EcoC3 Research Team is investigating a variety of self-sufficient living systems with the combined potential to provide everything individual dwellings, villages, communities, and inner-city neighborhoods need to sustain healthy living standards indefinitely.

Including eco-efficient methods for self-producing abundant food supplies, clean water, recycling essential raw materials from waste streams, and self-producing bio-fuel, solar, wind & thermal energy.

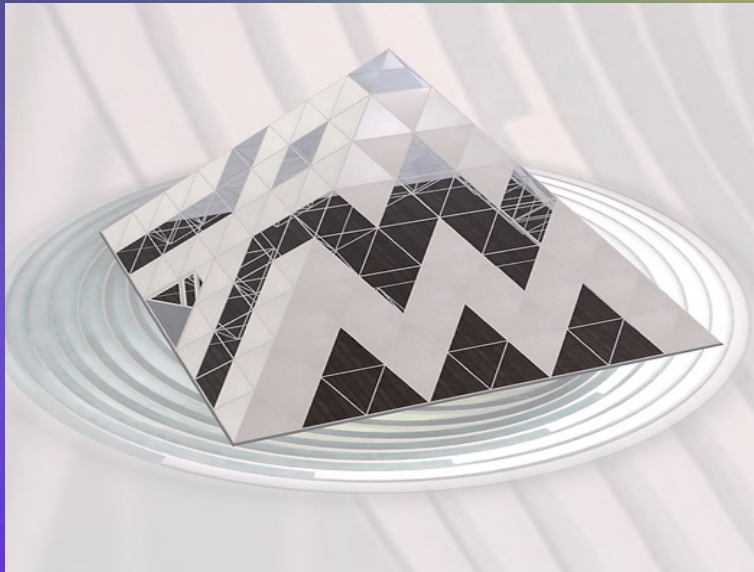
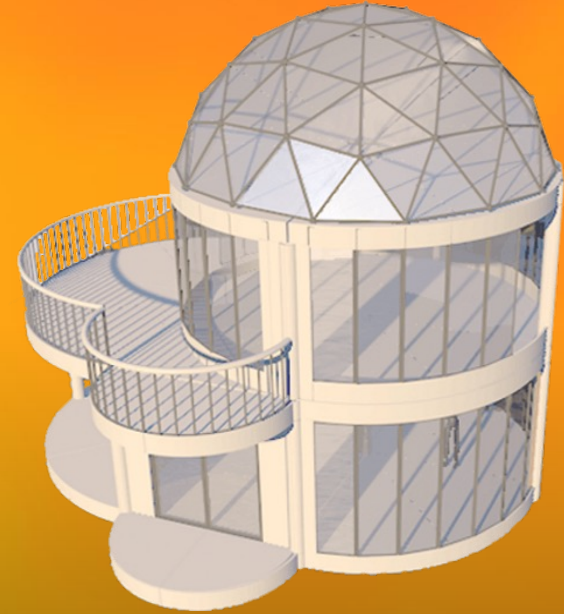
As we progress toward the radiation safe, pollution controlled, 'green' world everyone wants to and deserves to live in, the Portland Ceramic concrete / coating influenced self-sufficient living projects we are proud to be spearheading that includes the state-of-the-art, self-sufficient living expertise provided by the EcoBuiltSystems, Solar Roadways, and Phoscrete companies. As featured in following slides.



# EcoBuiltSystems – The Future Has Arrived

Eco Built Systems ([www.ecobuiltsystems.com](http://www.ecobuiltsystems.com)) is a manufacturer of modular structures built to last a lifetime. We specialize in producing event-ready domes and pyramids, green houses, and fireproof homes.

Framing of the structures are made with Stainless Steel hub and pole systems, utilizing tensegrity space frame features. Wall panels are made with hemp, geo-polymer C3Ceramic concrete/coating materials, and nontoxic, eco-safe Lithopore foam.



PYRAMIDS



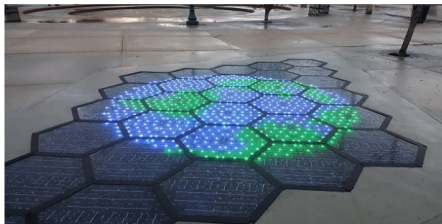
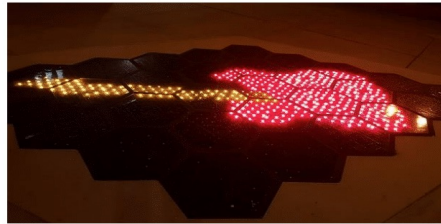
DOMES



CUBES



One of the most exciting projects C3 has been asked to participate in is using the eco-safe, high strength, user-friendly, durable, emp protection our C3Ceramic concrete, coating products provide to help construct the various concrete areas the amazing solar energy production system Scott and Julie Brusaw are bringing into the world with their dedicated, factually advanced Solar Roadways project ([www.solarroadways.com](http://www.solarroadways.com)). With prototype installation projects currently being supported by the U.S. Army, Dept. of Transport, Dept. of Energy, state governments, and various academic alliances.



### Decentralized Power

Solar Roadways can become the first true form of decentralized power: the flow of clean energy will come from every road, parking lot, and driveway across the country.

Produces power close to the end user



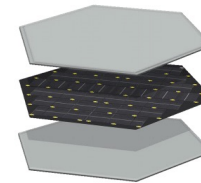
SR can become the Smart Grid, welcoming in all forms of renewable energy

Not vulnerable to terrorist attacks

Uses existing right-of-ways rather than wild land, protecting wilderness, flora, and fauna

Cable Corridors lining each road will provide a "home" for cables, protecting them from wind, ice, fire, trees, etc.

## What are Solar Road Panels?



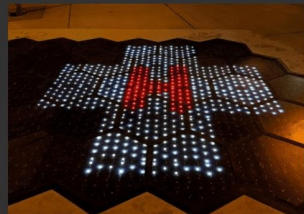
Each SR5 Solar Road Panel contains:  
Microprocessor (RF)  
Heating elements  
Solar cells - 48 watts  
300 LEDs

4.39 square feet, 70 pounds



## Airports Helipads Military Bases

Airports can really take advantage of the safety features of the Solar Roadways system. The heating feature would enhance the industry, virtually eliminating flight delays and cancellations due to snow and ice. Pilots tell us that the dynamic LED signage from the air and on the ground would be invaluable to them.

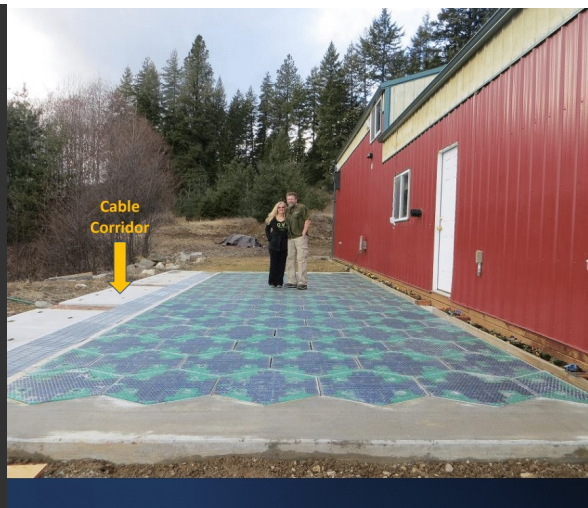


Helipads for hospitals, oil platforms, airports, military bases, and others



For the first time, runways can display wind speed and direction and other pertinent info in real time

We're already getting requests for helipads, hearing from large and small airports (including two international airports), and multiple military bases.



We'll close out this presentation with this update: Phoscrete ([www.phoscrete.com](http://www.phoscrete.com)) and C3 have been cooperatively working together to combine Phoscrete's liquid activated magphos (MPC) concrete and C3's water-activated magphos ceramic cement products to create never-before-possible concrete/asphalt repair solutions. The high strength, durable, eco-safe, versatile results methodically achieved over the past year have been amazing. With our uniquely advanced, timely repair materials entering a crumbling, decaying concrete world, the time to build a better world has factually, practically & provably arrived!

Phoscrete (<http://www.phoscrete.com/>) and C3 are joining forces with Phoscrete representing C3's water-activated concrete repair materials.

**PHOSCRETE FIXES SPALLED CONCRETE BRIDGES, ROADS, RUNWAYS, AND CULVSTAIRSERTS; DAMAGED PARKING DECKS, INDUSTRIAL FLOORS, FREEZER FLOORS, AND LOADING DOCKS; PLUS BROKEN WALLS,. SIDEWALKS AND DRIVEWAYS!**



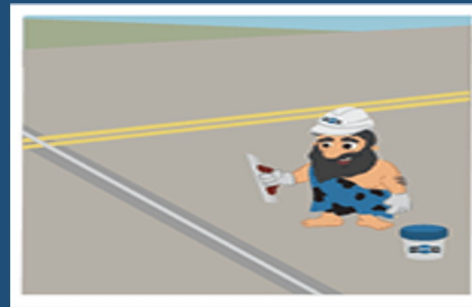
<http://www.phoscrete.com/>

Phoscrete and its new water-activated buddy PhosRok are safe, fast-setting, long-lasting Magnesium Phosphate Cement (MPC) concrete repair material. Phoscrete is DOT approved for use in 25 US states. Phoscrete and PhosRok can repair many different concrete structures, including:

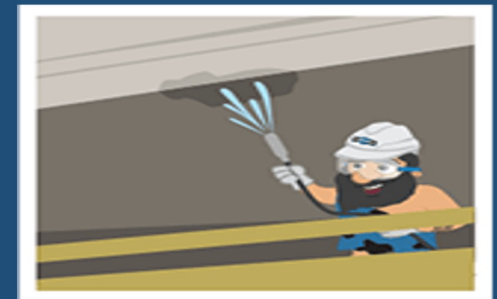
- BRIDGES
- RUNWAYS
- ROADS
- CULVERTS
- PARKING DECKS
- LOADING DOCKS
- INDUSTRIAL FLOORS
- FREEZER FLOORS
- SEA WALLS
- SIDEWALKS
- STAIRS
- DRIVEWAYS



**Phoscrete VO**  
Vertical/Overhead



**Phoscrete HC**  
Horizontal/Castable



**Phoscrete SG**  
Shotcrete/Gunite

# Moving Our Portland Ceramic Cement Innovations Into Local / Global Usefulness – *Next Steps*



- **Our C3/EcoC3 Team Will Continue Gaining Ceramic Cement Sales, Concrete Industry Recognition & Increased Market Awareness.**
- **Continue Forming Relevant Joint Research Alliances.**
- **Complete The Formation Of An Expert Concrete Industry, Science Based, Marketing, Sales Team To Facilitate Our U.S. & Global Market Entry Program.**
- **Identify Local/Global Concrete Experts & Companies To Help Us Implement Nation-By-Nation Market Entry Campaigns. As Our C3Africa Division Is Presently Organizing In Several DRC / Congo Nations.**
- **With The Ultimate Purpose Of Providing Our Ceramic Cement Inventions, Products and Technologies To Create & Retrofit Existing Dwellings Into Self-Sufficient Food, Clean Water, Energy Producing, Radiation Protected Homes, Neighborhoods, Villages, & Communities.**

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Or check out our web site - [www.ceramiccement.com](http://www.ceramiccement.com).