



KEY INFORMATION

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- **DUNS Number**
045628499
- **NAICS Codes**
Code#: Coating Manufacturing
325510: Coatings for Concrete
- **CAGE Number**
84EW1
- **Small Business**
- **LEED Qualified Green Product**
- **Government credit cards accepted:**
VISA
Mastercard

SUMMARY OF SERVICES

Zirconia makes an innovative new Ceramic Sealant for concrete. Our Ceramic Sealants are immune to salt, UV, freeze-thaw cycles, high heat and extreme cold. Zirconia's Ceramic Sealant is the only current technology that seals, chemically bonds to, and stabilizes concrete. This technology preserves new concrete, renovates degraded concrete, and preserves steel reinforcement from corrosion. It is non-toxic water-based green chemistry.

Zirconia is a small business that has a team of experts in developing new technology and over 30 years of experience in concrete restoration and preservation. Zirconia has large capacity production, and a growing number of engineer associates, coatings experts, and sales representatives around the USA.

CORE COMPETENCIES

- Our Ceramic Sealant is a new type of coating technology that preserves concrete assets by creating a ceramic surface composite (alumina-zirconia silicate) that cures at room temperature without the need of a kiln
- It seals the surface while also filling cracks and porosity, stopping liquid water penetration and damage from salt
- Makes near ocean concrete impervious to salt damage, carbonation, and deterioration
- Adds abrasion and wear resistance
- Preserves reinforcing steel from corrosion
- Provides a non-skid non-slip surface for worker, public safety
- Zero-flame spread, Zero-smoke ceramic (good for indoor use)
- Provides durable negative side waterproofing
- Can seal concrete block or CMU, stops lime leaching
- First durable concrete sealer which can be used outdoors
- Extreme lifespan (chemistry is similar to ancient Roman cements)
- Easy to clean
- Biologically impervious surface eliminates habitat for bacterial life, protecting food production areas and medical facilities from microbial contaminants

AREAS OF EXPERTISE

- Concrete sealing
- Concrete construction, renovation
- Specification for concrete construction, renovation
- Environmental and OSHA regulations
- Advanced Ceramic Surface Treatments



PAST PERFORMANCE

- **Burlington Bridge Abutment**, Concrete support structure, 10 years + pristine, no biological growth (self-cleaning photocatalytic surface)
- **Garden State Parkway I-280 Retaining Wall**, 10 years +, pristine, no biological growth (self-cleaning, photocatalytic surface)
- **New Jersey Route 1**, Bridgewater NJ, precast retaining wall sections, multiple color shades, 10 years+, pristine, no biological growth (self-cleaning, oxidative surface)
- **Morganza Spillway**, Ramp Substructure repair, 5 year +, pristine, no biological growth.
- **Adaptive Symbiotic Technologies**, "clean room" concrete floor repair became easy-clean, biologically impervious floor.
- **San Jose State University**, "mechanical room" waterproofing and flooring system in penthouse of engineering building

AWARDS, RECOGNITION, PROFESSIONAL ORGANIZATIONS

- Construction Specification Institute
- Association of General Contractors
- Society of American Military Engineers

RECOMMENDATIONS AND QUOTES FROM CLIENTS

"The fact that this new Ceramic Sealant is immune to UV, salt and weathering is all the great. However, I am most excited about having an inorganic glue-like material that will eliminate the problem with F.O.D. (foreign object debris) on runways by sealing the surface of concrete back into itself."

-Jeff Cerquetti PE, CEO BPS Engineers

"We are excited to find a technology that can handle exterior preservation of concrete, and also be accepting of advanced ceramics like our Silica Carbide Whiskers (SCWs). These SCWs are the same as the ones that turn radar waves into heat and help US jets be less radar visible. Diamond-hard, SCWs can make concrete infrastructure for bridge decks and airplane runways last a very long time."

-Tom Quantrille, Ph.D. President, CEO, Haydale Technologies Inc.

"The selling points for us were the biologically impervious characteristic, ease of cleaning, chemical bond, and surface stabilization of the old floor. I would definitely recommend it to others that have similar needs."

-Rusty Rodriguez, CEO, Adaptive Symbiotic Technologies

For more information, please call or contact:

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