CSC

WBENC & SBA WOSB Certified

WE STABILIZE YOUR SUBSTRATE FIRST, THEN WE APPLY YOUR CUSTOM SOLUTION.



SERVICE CATALOG

COORDINATED SYSTEMS CONSULTING

Coordinated Systems Consulting, Inc. integrates 150+ years of combined experience into the holistic solutions it provides for structural degradation and strengthening. We stabilize your substrate first, then apply your custom solution.

CERTIFIED INSTALLERS:

GEOTREE, FYFE, DYMAT DYNAMIC MATERIALS, Basalt.Guru Smarter Building Systems LLC, SURTREAT, Henry, Alchatek Advanced Construction Technologies, SEAWALL REPAIR NETWORK, Sika

DIFFERENTIATORS

- Our technology partners use the most innovative technology available and are thoroughly vetted by our Quality Assurance and Quality Control to ensure compatibility with our mission.
- As the contractor, the consulting engineer and the material manufacturer, CSC can ensure the success of a holistic solution through product development and advanced engineering.

OUR CLIENTS INCLUDE:

LGA, Cornell University Founded A.D. 1865, NASM, NEW YORK CITY DOT, United States Navy

COMPANY DATA & CODES:

Certified WOSB (Women Owned Small Business)

Certified WBE (Women's Business Enterprise)

NAICS Code:

238190 - Foundation, Structure, & Building Exterior Contractors

238120 - Structural Steel and Precast Concrete Contractors

238110 - Poured Concrete Foundation & Structure Contractors

OUR SERVICES:

We provide a range of services that are all aimed to extend the serviceable life of your concrete structure.

FRP Reinforcing

Corrosion Mitigation

Concrete Repair

Contact us today!

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4041 N Milwaukee Ave, Chicago, Illinois, 60641

Scan this code to visit our website!

CERTIFICATIONS

FYFE FRP

Fyfe Company designs and manufactures fiber-reinforced polymer (FRP) systems for strengthening, repair and restoration of pipes, masonry, concrete, steel and wooden structures. Fyfe is recognized around the world as the pioneer of the FRP structural strengthening industry with over 40 patents in the field.

SURTREAT

For over 30 years, Surtreat has provided a collection of concrete solutions for engineers, owners, and general contractors alike to bring long lasting and preventative concrete protection to the market. Coordinated Systems Consulting works in collaboration with Surtreat to offer the protection and restoration of concrete structures.

SRN

As a member of the Seawall Repair Network, CSC is certified to preserve and stabilize your seawall by repairing any leaking cracks in the seawall and stabilize surrounding soil. Through this system you permanently strengthens and repairs soil damage, prevents future erosion with a stronger than crystalline bedrock that happens to be safe for the environment.

GEOTREE

GeoTree Solutions is a leading global provider of highly engineered solutions for repairing, rehabilitating, strengthening and protecting critical infrastructure spanning the water and wastewater, oil and gas, industrial, and civil sectors.

SIKA

SikaSmart Basement-to-Roof expert solutions provide a single source for integrated and fully compatible products and systems for your various projects. SikaSmart promotes project functionality, enhances design possibilities and extends the life of your project and its major structural components.

DYMAT

The core philosophy of DYMAT® is to enhance materials and products to solve industry challenges. Through university research, finite element modeling, material sourcing, optimization and dedication, DYMAT designs over industry challenges and sets a new bar for competition.

CERTIFICATIONS

TREMCO

Tremco has been creating best in class products for many years. Tremco consists of operating divisions specializing in the manufacture of sealants and waterproofing products for multiple structures including office buildings, stadiums, parking garages, single- and multi-family homes, hospitals, high-rises and more.

HENRY

Henry Company stands at the forefront of waterproofing innovation, delivering a range of solutions designed to fortify structures against water intrusion. From roof waterproofing tailored to diverse roofing types to below-grade solutions ensuring a dry foundation,

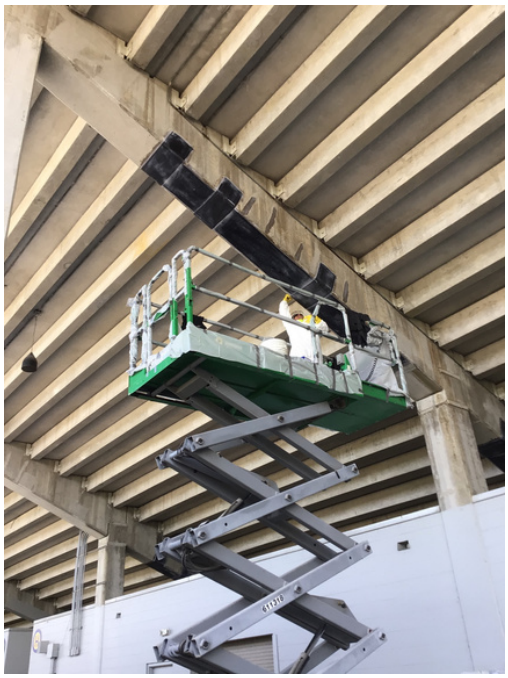
ALCHATEK

Alchatek is an international leader in the manufacture and supply of chemical grouts and construction products for Geotechnical, Leak Seal, and Seawall Repair applications. Alchatek specializes in advanced construction technologies for sealing leaks, stabilizing soils, lifting concrete, and protecting infrastructure and seawall structures.

BASALT

Basalt Fiber is a material made from extremely fine fibers of basalt, which is composed of the minerals plagioclase, pyroxene, and olivine. It is similar to carbon fiber and fiberglass, having better physicomechanical properties than fiberglass, but being significantly cheaper than carbon fiber.

OUR SERVICES



FRP REINFORCING

FRP composite materials are comprised of high strength continuous fibers, such as glass, carbon, or steel wires, embedded in a polymer matrix. The fibers provide the main reinforcing elements while the polymer matrix (epoxy resins) acts as a binder, protects the fibers, and transfers loads to and between the fibers. FRP composites can be manufactured on site using the wet lay-up process in which a dry fabric, made of carbon or glass, is impregnated with epoxy and bonded to prepared concrete substrate. Once cured, the FRP becomes an integral part of the structural element, acting as an externally bonded reinforcing system. FRP composites can also be prefabricated in a manufacturing facility in which the material is pultruded to create different shapes that can be used for strengthening applications, such as rods, bars and plates.

Frequently Asked Questions About FRP

What does FRP stand for?
The FRP that we use stands for Fiber-Reinforced Polymer. FRP can also stand for fiber reinforced plastics.

What is FRP wrapping?
Fiber Reinforced Polymer can be made of different materials such as glass, carbon, or steel, all embedded in the polymer matrix. The fibers are the main reinforcing element but are bonded together by a polymer, such as an epoxy resin. This polymer protects the fibers and equally distributes the load between each fiber of material.

What can FRP wraps be used on?
FRP wrap systems can be used on a variety of structures and in a variety of situations. FRP can be used on beams, joists, columns, decks, tunnels, tanks, pipes, silos, and much more.

Why use FRP?
There are many reasons why people opt to use FRP systems in place of traditional reinforcement systems. FRP systems can be offer reduced labor costs, less downtime during installation, and an overall more cost effective option than traditional methods.

CASE STUDY: BUCKS COUNTY GARAGE

The existing structure has fallen into disrepair and requires numerous concrete repairs, joint sealant replacement, composite strengthening and numerous other miscellaneous repair items. Coordinated Systems Consulting outlined FRP composite strengthening for the pre-cast tees in flexure as well as shear reinforcing as noted on the plans.

LEARN MORE ABOUT FRP:

OUR SERVICES

CORROSION MITIGATION & PREVENTION

Coordinated Systems Consulting provides best in class corrosion mitigation. Through our partnership with Surtreat Solutions, we are able to provide customers a complete system that not only prevents corrosion but actively treats and expels current corrosion from your concrete structure. This system also works with reinforced concrete, which penetrates the concrete to reverse rust and create an inert shell around the steel reinforcements inside of the concrete.

Frequently Asked Questions About Corrosion Mitigation

How does corrosion occur in concrete? Corrosion in reinforced concrete is one of the main concerns when talking about reinforced concrete structures. Typically, the reinforcements embedded into the concrete are protected by the high pH environment of the Portland cement around the reinforcements, which prevents corrosion from occurring (typically with pH levels around 12.5 or higher). However, when chlorides and other contaminants begin infiltrating the concrete through cracks and gel pores, it alters the state of the pH (pH of 10 or less), lowering it to levels where corrosion can occur on the reinforcements.

How do you prevent corrosion in concrete? The best way to prevent corrosion in concrete is by a corrosion mitigation. Typically this involves the application of a corrosion prevention product, such as a corrosion inhibiting admixture or a surface applied solution.

What is corrosion mitigation? Corrosion mitigation is any action or steps taken to reduce the likelihood of corrosion occurring. It can be the action of prevention or it can be the the action of mitigating already occurring corrosion.

CASE STUDY: 41ST AVE BEAMS

After performing site visit to inspect the elements and access; Coordinated Systems Consulting (CSC) developed a proprietary solution to protect, repair and strengthen two structural beams. After completing the Surtreat TPS product installations, as well as CFRP and allowing time to cure, CSC Certified Inspector Armando Corral ensured the accuracy and quality of the work by performing a final inspection prior to de-mobilization.

LEARN MORE ABOUT CORROSION MITIGATION:

OUR SERVICES

VCI COATINGS

VCI Coatings offers superior protection through the use of a proven epoxy primer combined with the benefits of the VCI technology. “The world is made out of bad concrete and rusty steel, and corrosion is the primary cause of deterioration of our infrastructure,” says Bob Walde, vice president of technology for Surtreat Holding LLC. The problem, he says, is that engineers tend to try to stop corrosion by physical means that address the symptoms but not the underlying causes. “Corrosion is an electrochemical process, and it can be inhibited by changing the chemical environment around the steel.”

Frequently Asked Questions About Corrosion Mitigation

What does VCI stand for? VCI stands for Volatile corrosion inhibitors (VCIs).

What is VCI coating? NACE International Standard TM0208 defines volatile corrosion inhibitor (VCI) as “a chemical substance that acts to reduce corrosion by a combination of volatilization from a VCI material, vapor transport in the atmosphere of an enclosed environment, and condensation onto surface in the space, including absorption, dissolution, and hydrophobic effects on metal surfaces, where the rate of corrosion of metal surfaces is thereby inhibited”.

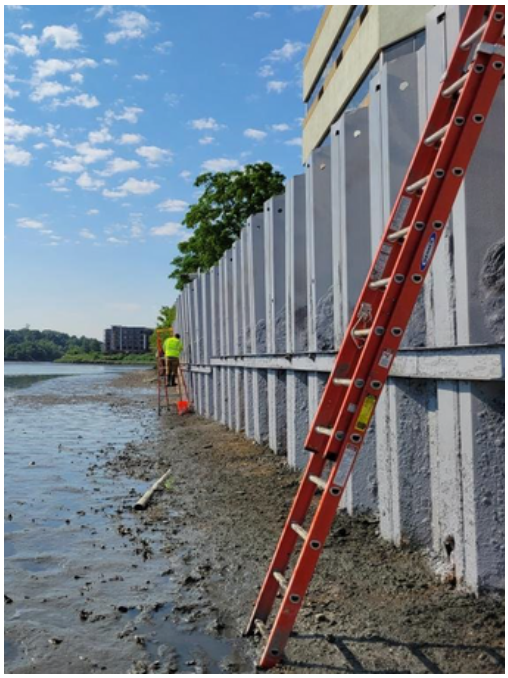
How do VCI coatings work? VCI coatings work by interrupting the reaction between the anode and cathode, the electrolyte reaction that causes the oxidation of the metal. This interruption is achieved by passivating the surface of the metal and inhibiting the electro-chemical reaction that causes the oxidation. The layer that is formed by VCI technology is incredible thin, only a few molecules deep, but it is effective enough to stop the oxidation process.

ARE VCI COATINGS BETTER THAN TRADITIONAL METHODS OF CORROSION PROTECTION?

VCI coatings are favored for a variety of reasons, including that they don’t contain the heavy metals of older types of corrosion protection and because they do not affect other other components of coatings, such as wetting agents, leveling agents, etc.

LEARN MORE ABOUT VCI COATINGS:

OUR SERVICES



SEAWALL REPAIR

Has your seawall been damaged by natural forces? Do you see depressions in the surrounding soil, rust stains, cracks, or movement of the seawall itself? Seawall Repair Network is your guide to repair and permanent preservation.

The Seawall Repair Network is the only national seawall repair and preservation network of highly trained Preferred Marine Contractors. As a member, we've been independently certified to install the proprietary solutions.Our specialists can provide solutions to repair leaking cracks in the seawall, stabilize surrounding soil, permanently strengthen and repair soil damage, and prevent future erosion.

Frequently Asked Questions About Seawall Repair

What kind of seawall damage can you repair? We can solve hydrostatic pressure issues, seawall cap repair, and repair seawall anchoring systems. For other issues our service staff can design and install a custom solution for your problem.

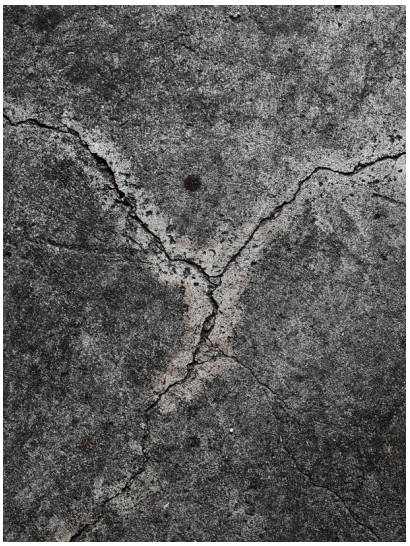
Why choose CSC to repair your seawall? Our innovative solutions deliver results whether you need to protect, replace, or repair. We also belong to the Seawall Repair Network, a certified group of seawall and retaining wall repair specialists.No matter the problem, our team has solutions for seawall cap repair, anchoring system repair, & more.

What are the other options beside getting my seawall repaired? First you can ignore the problem, but doing so jeopardizes your property and the integrity of the land on the other side of the seawall. The other option is to replace the seawall. Does heavy equipment tearing up your property sound like fun? Replacing a seawall can require the removal of nearby boardwalks, boat lifts, and other nearby structures. This can be messy, time consuming and expensive!

OUR SEAWALL SOLUTIONS CAN SAVE **70%** COMPARED TO FULL REPLACEMENT!

LEARN MORE SEAWALL REPAIRS:

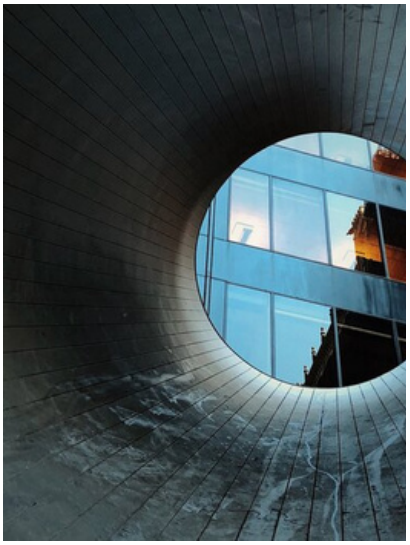
OTHER SERVICES



CRACK INJECTION

Cracks can happen in almost any concrete. It is important to fix, as cracks can lead to deeper problems, including structural issues. CSC offers crack injection to repair your cracked concrete.

Crack injection is when a fluid resin is forced into a void, crack, or spall in a concrete structure. The fluid resin can be an epoxy, polyurethane, or another liquid that provides the element that fills the crack.Why use crack injection? Crack injection is used to prevent larger issues from occurring because of the cracks. Issues such as moisture, degraded appearance, and many others can all be solved by crack injection. It also helps add strength and stability back to the structure when properly installed.



PUMA WATERPROOFING

As certified applicators of PUMA (polyurethane-methacrylate) technology, which allows for enhanced performance and durability compared to standard MMA/PMMA technology system, CSC can provide waterproofing to your project. These systems feature superior durability and abrasion resistance, exceptional crack-bridging, tenacious adhesion and fast cure — opening to traffic in as little as one hour after installation

CONCRETE REPAIR

To properly fix concrete, you have to treat all aspects of the disrepair. For Coordinated Systems Consulting, that means making sure that your concrete is in the best shape possible. We treat all kind of concrete issues, such as spalling, cracking, shrinking, or lifting. Concrete repair is much less costly than traditional rip out and replace tactics.

At CSC, we stabilize your substrate before the concrete repair. What this means for our clients is that the substrate is not only stronger upon repair, but the entire application will last much longer.

OTHER SERVICES

SOIL STABILIZATION AND LEAK SEAL

For soil stabilization and leak sealing the material we primarily use the most common material, grout. Grout is a fluid mixture that can be injected into the ground to improve soil properties or to seal leaks in structures. Here's how we use grout for soil stabilization and leak sealing:

1. Soil Stabilization with Grout
2. Leak Sealing with Grout
3. Chemical Grouting
4. Jet Grouting
5. Compensation Grouting

PAINTING

At CSC , we provide a comprehensive selection of business painting solutions tailored to diverse requirements.
Our difference lies in exceptional craftsmanship, personalized service, and a commitment to transparent communication. With cutting-edge techniques, efficient project management, and a focus on customer satisfaction, we bring innovation and precision to every painting project, ensuring a flawless finish that exceeds expectations.

DUSTLESS BLASTING

Dustless blasting offers several advantages in construction, including reduced dust emissions, efficient paint and coating removal, and the ability to work in diverse environments. It provides a cleaner and more environmentally friendly alternative to traditional dry blasting methods, making it well-suited for construction projects where dust control is essential.