

Ceilcote corrosion solutions

Linings, coatings, grouts and flooring

Solving corrosion challenges for industry worldwide

Sprayed, rolled or troweled, Ceilcote® corrosion control lining, coating and flooring systems have protected millions of square feet of concrete and steel for over 80 years. A comprehensive range of products, extensive research facilities and the development of rapidly installed, safer and simpler systems are the tools used to deliver long lasting and better concrete and steel protection.

Established technology

Ceilcote systems have been applied to projects of all sizes, whether it's new construction or a maintenance project. An international track record of successful installations and a wide range of product types are testament to the fact that Ceilcote coating, lining and flooring systems are proven reliable solutions for industry worldwide.

Industry firsts

The tradition for Ceilcote innovation began in the 1920s with the introduction of Ceilcote chemical resistant mortars. It continues through to present day to include innovative products such as Ceilcote Corocrete and Ceilcote monolithic floor systems, Ceilcote machinery grouts, Ceilcote Flakeline chemical resistant reinforced composite linings, Ceilline crack bridging and hybrid novolac technologies.

Solutions selling

Is the solution a modest maintenance challenge for a monolithic flooring system? Perhaps it's a major lining in a new flue gas desulfurization (FGD) scrubber system. Or maybe it's a thin film coating to protect drilling rigs, monolithic linings for hazardous waste holding tanks and basins, or polymer mortars for floor repair and topping.

Whatever the need, success in corrosion control is the result of research and development that is oriented toward solving customer challenges.

Global manufacturing facilities

A specific range of Ceilcote products are available internationally, ensuring consistent quality and service to customers everywhere.

Faster solutions

Ceilcote technologies encompass a range of attributes for quicker installation and return to service:

- Fiberglass mat reinforced systems
- High build topcoats
- Reduced application steps
- Reduced cure times
- Fast return to service

Simpler solutions

We have over 2,900 R&D professionals across 70 labs worldwide. Our commitment to excellence and sustainability drives us to continuously innovate. International® protective coatings are a solution for today and the future.

Superior technologies

Field proven

Ceilmate systems are field proven for a variety of applications, such as concrete and steel structures, tanks, trenches, primary and secondary containment areas, process floors, tanker cars, FGD scrubbers, pipelines and more.

When it comes to the protection of precast and cast-in-place construction, Ceilmate systems are often the solution of choice. For example, Ceilmate Ceilgard offers protection from sulfides in the interior precast concrete wastewater sewer piping, while Ceilmate Ceilcrete protects ore processing.



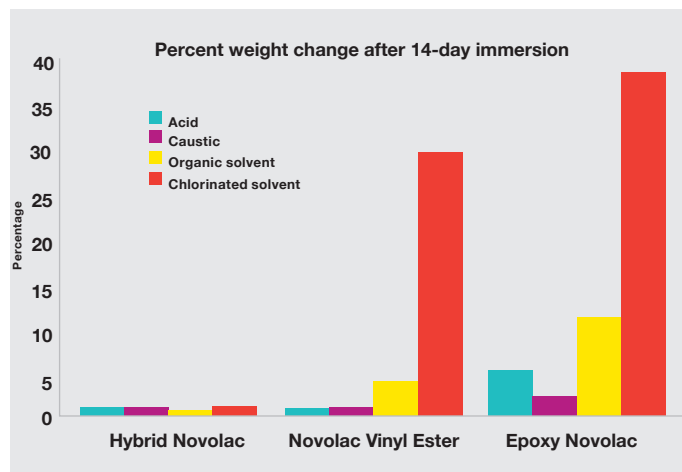
Advanced hybrid novolac technology

Ceilmate hybrid novolac technology provides exceptional resistance to aggressive chemicals, such as methylene chloride, acetone, methanol, nitric acid and n-methylpyrrolidone (NMP).

Ceilmate novolac systems are designed to protect concrete and steel from corrosion due to attack from aggressive chemicals in immersion and splash and spill conditions. Applications include floors and trenches in process areas, primary and secondary containment, truck loading/unloading areas and surfaces that are exposed to chemical spillage.

Advantages

- Exceptional solvent resistance
- Low VOC for reduced solvent emissions
- Long-term service
- No post-cure required



Ceilmote linings

Ceilmote lining systems provide a range of specialty solutions that have many advantages. All Ceilmote linings are monolithic for forming a continuous protective barrier on carbon steel, alloy and concrete surfaces.

Highly engineered systems utilize diverse resin chemistries and combine flake, cloth, or mat reinforcements to optimize both permeation and chemical resistance.

Lining system types

- Monolithic
- Polymer based
 - Epoxy
 - Epoxy novolac
 - Polyester
 - Vinyl ester
 - Novolac vinyl ester
 - Hybrid novolac
- Flake reinforced
- Low surface energy
 - Resists deposits
 - Aids in removal of process buildup

Applications for concrete

- Clarifiers, thickeners
- Containment, dikes and vaults
- Equalization basins
- Foundations, trenches and pits
- Neutralization tanks

Applications for steel

- Ionization and process vessels
- Pickling and plating tanks
- Scrubbers, separators and stacks
- Duct work
- Electro deposition tanks



Ceilmote linings	Advantages
Flake-filled systems 180 Flakeline 140 Flakeline	High temperature resistance
Crack bridging Ceilline 242 Ceilline 662	Superior thermal cycling resistance
Mat-reinforced Flakeline 242MR Flakeline 662	Extended protection Extended chemical and mechanical protection

Power industry challenge:

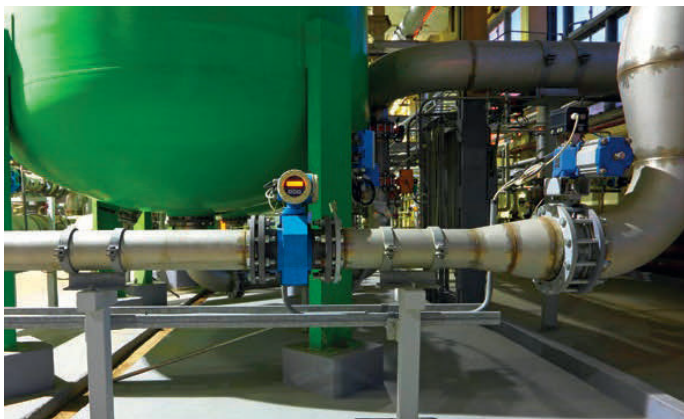
Environmental regulations demanded the reduction of harmful sulfur gases released into the atmosphere at a power plant. The sulfur oxides produced by burning coal had to be removed by a wet scrubbing process prior to exhausting the flue gas. This process, known as flue gas desulfurization (FGD), produces acid conditions that cause rapid corrosion to the steel scrubbers, ducts and associated tanks.

Ceilmote solution:

Proven Ceilmote Ceilmote and Ceilmote Flakeline lining systems were installed to protect the steel surfaces of the scrubbers, ducts, stacks and tanks. These chemical and abrasion resistant systems were a highly effective solution for both the FGD process and the environment.

Based on years of Ceilmote testing and technical support, the power plant operation installed Ceilmote linings throughout their facilities worldwide, including locations in the Far East, Middle East and Europe.

Ceilcote coatings



Ceilcoat coatings	Advantages
Heavy duty coatings systems Ceilcrete 6640 Flakeline 140	High temperature resistance Permeation resistance Sprayable systems Replace linings for light duty applications
Light duty coating systems Flakeline 242 Flakeline 662	Resistance for less aggressive chemistries Moisture tolerance Superior structural steel protection
Maintenance coating systems Ceilgard 615	Adhesion to rusted steel Easy 1:1 mix ratios Safety color availability

The selection of a coating system can include special requirements from substrate to environmental conditions. With the Ceilcote range of coatings, light to very heavy industrial challenges can be addressed.

Coating system types

- Polymer based
 - Epoxy
 - Epoxy novolac
 - Polyester
 - Vinyl ester
 - Hybrid novolac
- High solids
- Flake reinforced
- Low surface energy
 - Resists deposits
 - Aids in removal of process buildup

Applications for concrete

- Process area floors and walls
- Pits and trenches
- Secondary containment
- Block walls

Applications for steel

- Interior or exterior of tanks
- Structural steel
- Pipeline exteriors
- Industrial equipment
 - Oil field service equipment
 - OEM equipment

Chemical processing challenge:

A large chemical manufacturing facility required a solution for concrete secondary containment areas. Epoxy, polyester and vinyl ester coatings were all installed in the past and had deteriorated under the attack of pyridine and other organic compounds.

In addition, environmental compliance requirements for secondary containment were not being met. Since the facility would require downtime to fix the problem, a fast solution was critical.

Ceilcote solution:

Ceilcote's advanced hybrid novolac technology provided the superior resistance needed for the aggressive organic chemicals. Within 24 hours, the hybrid novolac coating delivered the fast turnaround required. Plus, the safer, high solids nature of the hybrid novolac coating allowed for continued operations throughout the remainder of the facility.

Ceilcote grouts

With over 60 years of experience and our broad range of Ceilcote polymer grouting materials, you can rely on us when chemical protection and critical alignment for process equipment and machinery is required. Our grouts provide fast-set solutions and resistance to dynamic loads, which extends the life of your equipment and saves money on re-grouting costs.

Grout system types

- Polymer based
 - Epoxy
 - Novolac
 - Vinyl ester

Applications

- Engines, generators and compressors
- Chemical pump pads
- Process equipment
- Chemical storage tanks
- Machinery
- Structural steel supports



Ceilcoat grouts	Advantages
Ceilcote 748 grout (epoxy)	High temperature resistance Excellent chemical resistance Superior adhesion and good flowability Low creep and low exotherm
Ceilcote 749DP grout (epoxy)	Deep pours/large volume Excellent chemical resistance Superior adhesion and excellent flowability Low creep and very low exotherm
Ceilcote 848 grout (epoxy novolac)	Excellent chemical resistance High strength Superior adhesion Fast cure and low exotherm
Ceilcote 165 grout (epoxy)	Excellent acid resistance

Chemical processing challenge:

Compressors and pumps used in the oil and gas industry must have a chemical resistant grout to maintain alignment and long service life.

Ceilcote solution:

Ceilcote's epoxy and vinyl ester grouts provide the superior creep resistance required for critical equipment used in the oil and gas industry and others.

Ceilcote floorings



Maintaining concrete substrates is very important at industrial facilities. Areas where materials are being processed can be disrupted or shut down because of chemical attack on the floors, which cannot only be costly to repair, but also lead to high costs from lost production. Ceilcote flooring systems furnish specialized solutions for corrosion issues that are found in a wide range of industries – from utility turbine rooms to pharmaceutical plants.

Ceilcote systems protect against attack by acids, alkalis and chemicals of all kinds, and can solve other critical issues related to thermal cycling, steam cleaning, abrasion and surface resistance, and heavy traffic. From light duty to heavy duty trowel-applied systems, Ceilcote provides the answers.

Flooring system types

- Monolithic
- Polymer based
 - Hybrid novolac
 - Epoxy novolac
 - Epoxy
 - Vinyl ester
 - Epoxy phenolac
 - Vinyl ester novolac
- Conductive

Concrete or steel applications

- Chemical process and storage areas
- Clean rooms and compressor rooms
- Demineralization areas
- Food process areas
- Heavy traffic areas
- Plating rooms



Ceilcoat floorings	Advantages
Ceilcote Systems and Ceilcote Corocrete Systems	Steam cleaning resistance, Impact/heavy traffic resistance, versatile, variety of applications (spray, brush, roller, broadcast, power trowel, trowel, squeegee)

Metal finishing challenge:

A metal finishing plant needed to expand a batch processing area. Since the splash/spill material that would reach the floor included hydrochloric acid, chromic acid and other harsh solvents, a system that could protect the concrete surface from the exposure was sought. In addition, the concrete surface had to have the durability to support frequent tow motor and forklift traffic.

Ceilcote solution:

The Ceilcote Ceilcrete series fiberglass reinforced system furnished the chemical resistance that could withstand the aggressive solvents, while offering the abrasion and impact resistance for rubber wheel traffic.

In addition, the jointless or monolithic surface of the Ceilcote Ceilcrete system reduced maintenance costs.

About International

International® is a world leader in high performance marine, protective, and yacht coatings. Onshore and off, International® delivers complete solutions backed by expert service, global support and over 140 years of heritage in innovation and partnership — spanning anticorrosion, passive fire protection, and advanced fouling control to premium aesthetic finishes. International® coatings cover everything from the world's tallest and most sustainable buildings to supertankers and megayachts. International® is a brand of the Marine, Protective and Yacht Coatings business unit of AkzoNobel.

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