



CEMENTITIOUS WATERPROOFING

Advanced Polymer-Modified Cementitious Waterproofing Technology



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Built-In Protection for Concrete Structures

The **GEMITE®** line of **cementitious coatings** is engineered to protect reinforced concrete structures in two critical ways — by providing durable waterproofing and by resisting chemical attack that can deteriorate concrete over time. These high-performance coatings bond integrally with the concrete substrate, creating a protective barrier that helps extend the service life of structures exposed to water, moisture, and aggressive environments. As cement-based materials, GEMITE coatings are compatible with concrete and designed to perform in demanding infrastructure and industrial applications.

CEM-KOTE products are formulated to withstand both negative-side and positive-side hydrostatic pressure, making them an ideal waterproofing solution for below-grade structures. Typical applications include wastewater treatment facilities, potable water reservoirs, concrete tanks, tunnels, and other water-retaining structures. Formulations designed for potable water environments meet **ANSI / NSF Standard 61 – Drinking Water System Components**, ensuring suitability for use in systems that come into contact with drinking water. These versatile materials can be spray-applied or hand-applied, allowing contractors to efficiently waterproof complex surfaces and structures.

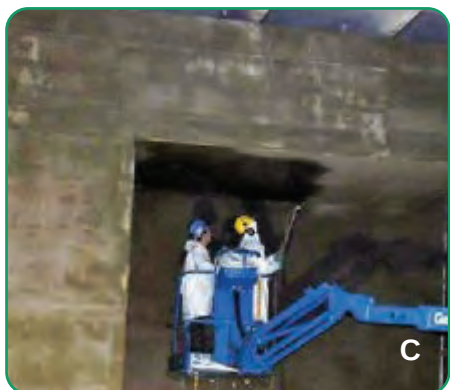
Products such as **CEM-KOTE FLEX ST** for potable water structures and **CEM-KOTE FLEX CR** for wastewater facilities can effectively replace many traditional polymer coatings in certain applications. Their “in-place” costs are often more economical than comparable polymer systems, while offering key performance advantages. Unlike many polymer coatings, CEM-KOTE materials do not require a completely dry concrete substrate during installation and are less sensitive to high-humidity environments. They resist debonding caused by moisture at the concrete/coating interface, can bridge nominal substrate cracks, and provide a fast, efficient installation process that helps keep projects on schedule.

CEM-KOTE FLEX ST

CEM-KOTE FLEX ST is a highly flexible, fiber-reinforced cementitious waterproofing coating designed to protect concrete structures from water intrusion and environmental exposure. This two-component system forms a breathable yet watertight membrane that bonds tightly to concrete and provides both positive-side and negative-side waterproofing protection. Its flexible formulation allows the coating to bridge hairline cracks while maintaining long-term resistance to water pressure, making it a reliable solution for both new construction and restoration projects.

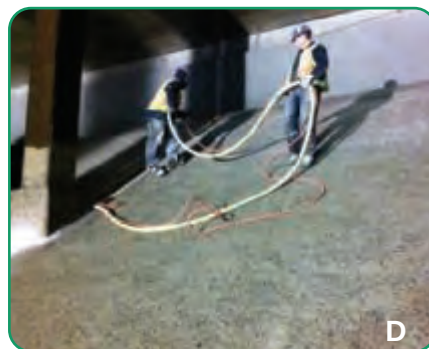
Engineered for durability and ease of application, CEM-KOTE FLEX ST can be applied by brush, trowel,

or spray and performs well in demanding environments exposed to moisture, weathering, and immersion. The system is certified to ANSI/NSF 61 for potable water applications and offers strong resistance to freeze/thaw cycles, salt scaling, and UV exposure. Its breathable membrane allows trapped moisture vapor within the concrete to escape, helping prevent coating failures and ensuring long-term performance in water-retaining and below-grade structures.



Best Uses for CEM-KOTE FLEX ST

- Potable water tanks and reservoirs
- Wastewater and water treatment structures
- Tunnels and underground concrete structures
- Secondary containment structures
- Concrete slabs, balconies, and patios (light- to medium-traffic areas)
- New construction requiring flexible waterproofing protection
- Restoration of existing concrete structures with minor crackin



- A) Carson floor waterproofing, Nevada
 B) Grey water tanks in Marina Heights, Arizona
 C) Potable water tank in Toronto, Ontario
 D) Potable water tank in Vancouver, Canada
 E) Waste water treatment facility, California

CEM-KOTE FLEX CR

CEM-KOTE FLEX CR is a highly flexible, fiber-reinforced cementitious waterproofing membrane engineered to protect concrete structures exposed to aggressive chemical environments. Designed specifically for areas where hydrogen sulfide gas can form sulfuric acid, the product provides durable waterproofing and corrosion protection in wastewater infrastructure. This makes it well suited for demanding applications such as digesters, sludge tanks, clarifiers, manholes, and sewer systems where concrete surfaces are frequently exposed to microbiologically induced corrosion (MIC).

Formulated as a two-component hydraulic cement system, CEM-KOTE FLEX CR creates a breathable yet watertight barrier that helps maintain the long-term integrity of concrete structures. The coating provides strong adhesion and flexibility while resisting chemical attack, moisture intrusion, and cracking. Easy to mix and apply by brush or spray, the material has been successfully used around the world to protect and restore concrete in wastewater treatment plants, pumping stations, and other structures exposed to corrosive environments.



Features & Benefits

- Excellent resistance to sulfuric acid generated by hydrogen sulfide (MIC environments)
- Good resistance to a wide range of chemicals, mineral acids, and salt solutions
- Highly flexible, fiber-reinforced cementitious membrane for durable protection
- Long-term crack resistance and strong adhesion to concrete substrates
- Breathable coating allows substrate moisture to escape
- Excellent freeze/thaw durability
- Low shrinkage and self-curing properties
- Easy brush or spray application for new construction or restoration

A) Clarifier, Pascani, Romania

B) Clarifier, Windsor, Canada

C) Digester, Toronto, Canada

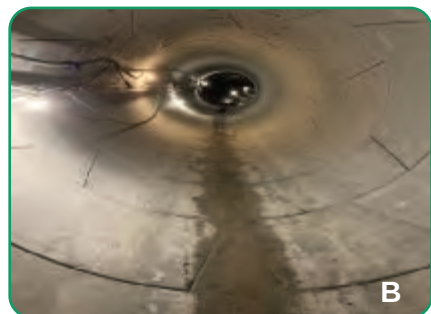
D) Sewer manhole, Manitoba, Canada

CEM-KOTE BARRIER COTE 100

CEM-KOTE BARRIER COTE 100 is a polymer-modified cementitious waterproofing coating and bonding agent designed to protect and strengthen concrete structures exposed to demanding service conditions. This two-component system creates a dense, high-strength barrier that resists water penetration, chemical attack, and heavy mechanical wear. Its superior bond to clean,



A

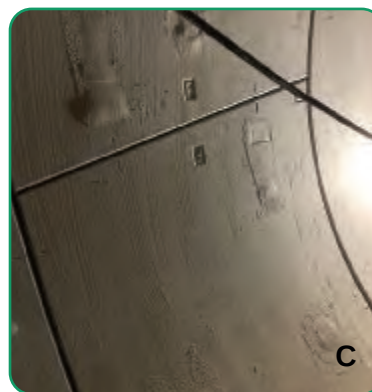


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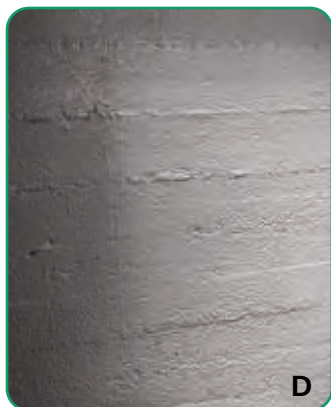
structurally sound concrete allows it to perform as both a protective waterproofing layer and a reliable bonding coat for overlays, resurfacing systems, and repair mortars.

Engineered for durability, CEM-KOTE BARRIER COTE 100 delivers excellent abrasion resistance, crack-spanning capability, and long-

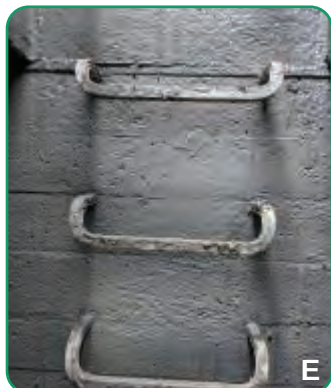
term protection against freeze-thaw cycles and chloride intrusion. The coating can be applied to new or existing concrete by spray, brush, or trowel, making it well suited for high-traffic and industrial environments such as parking decks, loading docks, and wastewater structures. By reducing moisture and chloride penetration into concrete, it helps protect embedded reinforcement and extend the service life of the structure.



C



D



E

Features & Benefits

- Polymer-modified cement coating with excellent bond to concrete substrates
- High abrasion and impact resistance for heavy-duty traffic areas
- Provides waterproofing with both positive- and negative-side protection
- Crack-spanning capability with long-term crack resistance
- Superior freeze-thaw and salt-scaling resistance
- Reduces chloride penetration to help protect reinforcing steel from corrosion
- Resistant to chemical exposure, including salt solutions and alkalis
- Very low shrinkage; will not crack from drying shrinkage
- Can withstand continuous water immersion
- Easy mixing and application by spray, brush, or trowel

A) Parking Garage in Toronto, CA

B & C) Erin Mills Parkway Sewer Tunnel

D & E) Region of Peel Manholes

CEM-KOTE CW PLUS



CEM-KOTE CW PLUS is a second-generation crystalline waterproofing coating designed to protect concrete structures from water penetration and moisture intrusion. This cement-based material combines traditional crystalline waterproofing with a membrane waterproofing mechanism, delivering extremely fast activation compared to older crystalline systems. When applied to damp concrete, reactive chemicals penetrate the substrate and form insoluble crystals that block capillaries and micro-cracks, helping prevent water intrusion while still allowing vapor transmission. The result is long-term waterproofing protection that remains active within the concrete and continues to respond to the presence of moisture over time.



CEM-KOTE CW PLUS also creates a dense, durable surface layer that provides excellent abrasion and impact resistance while forming a tight bond with the concrete substrate. Applied as a brush- or spray-applied slurry, the coating can be used for both positive- and negative-side waterproofing in new construction or restoration projects. Suitable for tanks, basements, tunnels, foundations, reservoirs, and other water-retaining structures, CEM-KOTE CW PLUS is approved for potable water applications under ANSI/NSF Standard 61 – Drinking Water System Components, making it a reliable choice for protecting critical infrastructure exposed to constant moisture or water pressure.



Features & Benefits

- Dual waterproofing action combining crystalline waterproofing and membrane waterproofing mechanisms
- Reactive chemicals penetrate concrete and form insoluble crystals that block pores and micro-cracks
- Self-sealing capability for cracks up to approximately 0.5 mm (20 mils)
- Effective protection against positive and negative hydrostatic water pressure
- Allows vapor transmission while blocking liquid water ingress
- ANSI/NSF 61 certified for potable water structures
- Single-component cementitious material (add water) for easy mixing and application
- Brush- or spray-applied slurry suitable for new construction or restoration
- Ideal for tanks, reservoirs, tunnels, basements, foundations, and other water-retaining concrete structures

A) Military project, Montana

C) Water tank, Digby, Nova Scotia, Canada

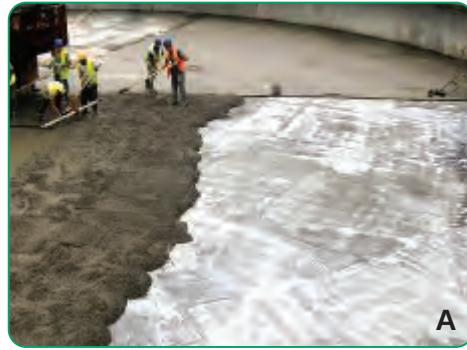
B) South ferry station, New York

D) Wet well, California

ADI-CON CW PLUS

ADI-CON CW PLUS is an integral crystalline water-proofing admixture designed for Portland cement-based concrete and mortars. This dry, free-flowing powder contains a blend of inorganic and organic chemicals, silica-based materials, and fine sand that react with byproducts of cement hydration. The reaction forms insoluble crystals within the concrete's capillary pores and micro-cracks, effectively reducing permeability and helping prevent water intrusion under hydrostatic pressure. By becoming part of the concrete matrix itself, ADI-CON CW PLUS provides long-term waterproofing protection for the life of the structure.

Added directly to the concrete mix during batching, ADI-CON CW PLUS simplifies waterproofing by providing integral protection throughout the concrete rather than relying solely on surface-applied systems. The crystalline reaction continues in the presence of moisture, helping seal small cracks and maintain resistance to water penetration over time. By limiting water ingress, ADI-CON CW PLUS enhances durability and helps protect concrete from freeze-thaw damage, chemical exposure, and reinforcement corrosion in demanding environments such as foundations, tunnels, and water-retaining structures.



Features & Benefits

- Integral crystalline waterproofing that reduces concrete permeability
- Reacts with cement hydration byproducts to form insoluble crystals within pores and micro-cracks
- Helps resist water penetration under hydrostatic head pressure
- Enhances durability by reducing risks of freeze-thaw damage and reinforcement corrosion
- Easily added at the batch plant or directly into ready-mix concrete during batching
- Compatible with cast-in-place, precast, and shot crete concrete systems
- Chloride-free formulation with minimal effect on fresh concrete properties

A) Botosani, Clarifier, Romania

B) Bratislava parking garage, Slovakia

C) Concrete slab, Oklahoma

D) Vladivostok foundations, Russia



CEMENTITIOUS WATERPROOFING

Ideal applications:

- Water Treatment Plants
- Sewage Treatment Plants
- Bridges
- Dams
- Railway & Subway Systems
- Marine Cargo Ports & Docks
- River Locks / Channels & Concrete Dykes
- Parking Structures & Lots
- Tunnels



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