



Delivering Concrete Solutions



## **Integral waterproofing and corrosion protection solutions for durable concrete construction**

Hycrete's innovative technology delivers water-tight concrete construction, cost savings, and reduced construction time and maintenance, all with a greener solution.



## Waterproof Construction, Membrane-Free

*Technologically advanced admixtures combined with comprehensive in-field service ensure long-term, membrane-free, water-tight construction*

### LOWER CONSTRUCTION COSTS AND CONSTRUCTION TIME SAVINGS

Typical savings are 40% lower installed cost than a traditional membrane approach. Additionally, no membrane means entire steps in the construction process are eliminated, shortening the critical path. Days, weeks or even months of overhead are saved.



## Moisture Protection in Flooring

*Admixtures that reduce vapor transmission through concrete, coupled with Hycrete's technical team guarantee flooring performance*

### CONSTRUCTION TIME SAVINGS

Hycrete admixtures don't allow water or moisture to re-enter concrete, reducing the potential for moisture-related floor failures.

### BEST-IN-CLASS WARRANTY

Hycrete's 10-year IntegraTek Vapor warranty ensures that your floor is protected from moisture.



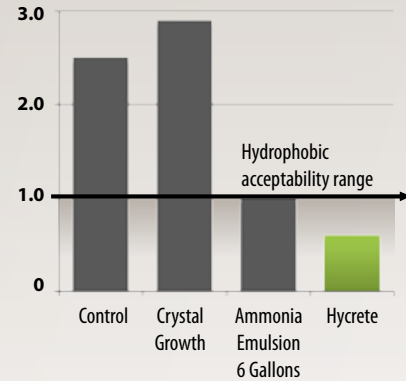
What you don't want.



What you want.

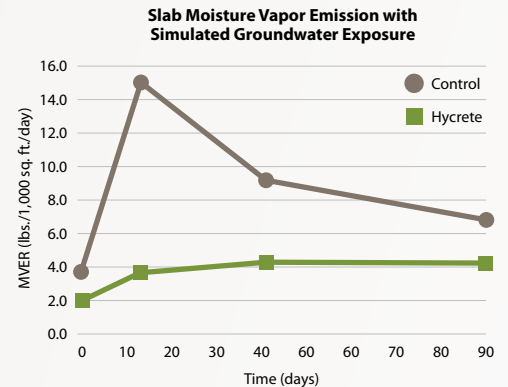
### Water Absorption Reduction

Hycrete admixtures exceed the benchmark for hydrophobic concrete, which is less than 1% water absorption



### Moisture Vapor Emission Reduction

Hycrete admixtures reduce moisture absorption and vapor emission in concrete.



## Hycrete's Dedication to Service Makes the Difference



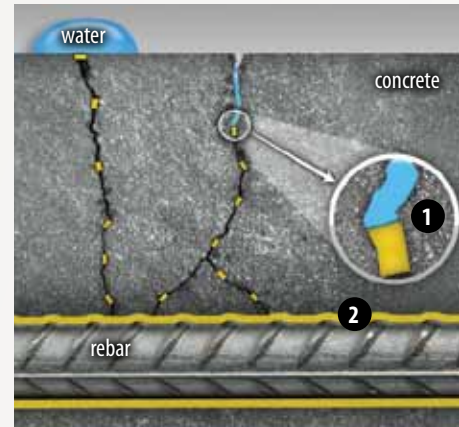
Hycrete's trained field technicians fully service each service-warranted project. Hycrete provides guidance in the design phase, mix design, and preconstruction reviews to ensure the project is planned right. Before pours, Hycrete teams inspect the site and monitor batch plants. Hycrete teams are onsite during the pours. Finally, Hycrete teams follow up afterwards to make sure that the structure is water-tight and built to last and is protected from moisture.

If it leaks or fails due to moisture, we fix it. That's our warranty, and there's just one company you have to call.

## Hycrete's Admixtures Make Concrete Waterproof and Inhibit Corrosion

Hycrete's products start as environmentally friendly, Cradle to Cradle Certified™ water soluble admixtures. When dosed into concrete, the Hycrete molecule chemically transforms, becoming a water-insoluble polymer. That polymer plugs pores in the concrete, keeping water out and blocking the diffusion of corrosive ions through the concrete. It also bonds to the surface of steel reinforcement, creating a protective layer that shields the rebar from corrosion. Finally, Hycrete's technology self-heals cracks.

All together, the Hycrete molecule keeps water out of the concrete and corrosive agents away from the steel.



1. Hydrophobic pore blocking
2. Corrosion-inhibiting surface coating

## More Durable Structures

*Unparalleled corrosion resistance that can help dramatically extend the life of your structure*

### SAVING MONEY AND REDUCING MAINTENANCE

Not only does Hycrete technology reduce water absorption, it even protects the steel reinforcement. Hycrete admixtures reduce corrosion by water and dissolved salts, extending your structure's useful life and reducing potential replacement costs, helping to save money up front and over time.

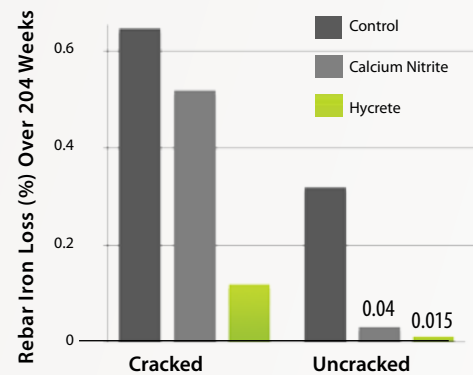
### IN THE CONCRETE FOR THE LIFE OF THE STRUCTURE

Hycrete admixtures react with the concrete mix forming a permanent chemical bond. The molecule does not break down. It won't leach out. No reapplication is ever required.



### Corrosion Performance

Hycrete admixtures provide superior corrosion resistance to calcium nitrite and the control, both in cracked and uncracked concrete specimens.



## Applications

- Cast in place walls (1 & 2-sided forms)
- Shotcrete walls
- Foundation walls
- Cast in place structural slabs
- Slabs on grade
- Marine and coastal projects
- Parking structures
- Concrete foundations
- Water features
- Basements
- Wastewater treatment plants
- Roads and bridges
- Structural stairs
- Temporary roofs
- Green roofs
- Podium decks
- Block and pavers
- Stucco
- Elevator pits
- Tunnels
- Outdoor balconies
- Potable water tanks
- Architectural concrete
- Precast concrete

## Build to Last

The most sustainable structure is the one you don't have to rebuild. Make your current project last longer. Hycrete admixtures and solutions provide more durable waterproofing approaches, and more durable structures.

## Cradle to Cradle From the Start

The Cradle to Cradle philosophy embraces a fundamental change in our disposable society - from cradle to grave to Cradle to Cradle. Sustainable philosophies are at the core of Hycrete's business practices and our technology. In fact, Hycrete admixtures were the very first Cradle to Cradle Certified™ building materials.

## Using Hycrete May Contribute to LEED Credits

### ■ INNOVATION IN DESIGN (ID CREDIT 1) "Membrane-Free Construction"

Hycrete materials offer the opportunity to eliminate the use of membranes, providing substantial reduction in jobsite material used, pollutants emitted, non-recyclables consumed, and labor used.

Based solely on the use of Hycrete System, this Innovation In Design credit has been successfully submitted and approved by the USGBC in previous projects.

### ■ MATERIALS AND RESOURCES (MR CREDIT 4.1/4.2) Recycled Content

The value of recycled materials, 50% of pre- and 100% of post-consumer, counts towards this credit. Hycrete admixtures are 80% composed of pre-consumer recycled materials, by weight.

### ■ INNOVATION IN DESIGN (ID CREDIT 1) Greater than 2.5% of Building Materials Cradle to Cradle Certified™

Use of Cradle to Cradle Certified™ products that constitute at least 2.5% of the material cost of a project has been established as a successful application for an Innovation Credit.

Hycrete products achieved Cradle to Cradle Certified™ Gold (50% credit).

### ■ MATERIALS & RESOURCES (MR CREDIT 5.1) Regional Materials

The value of materials extracted and manufactured within 500 miles of the project site count towards this credit. Hycrete admixtures are manufactured in Newark, NJ; 80% of the materials are extracted there.



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