



## **BROCHURE**

Integral waterproofing and corrosion protection solutions for concrete construction worldwide.

**Simplify** Design  
**Reduce** Cost  
**Minimize** Risk

## Sustainable Waterproof Construction

Technologically advanced admixtures combined with comprehensive service ensure long-term, water-tight construction.

### Lower Construction Costs

Typical savings are 40% lower in costs than outmoded membrane approaches.

### Construction Time Savings

By using Hycrete, entire steps in the construction process are eliminated, shortening the critical path. The vulnerabilities to weather, damage by other trades, and extra excavation disappear. Days, weeks or even months of overhead are saved. The combination of project acceleration and the lower cost of Hycrete means significant profit enhancement.

### Best-in-Class Warranty

Through an industry leading 10-year performance-based warranty, Hycrete ensures that your structure remains water-tight. If it leaks, we fix it.

### Comprehensive Field Services

Hycrete's trained field technicians fully service each warranted project. Hycrete makes sure it gets done right for you every time, from planning to pour, and beyond.

### More Durable Structures

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

### The Best Corrosion Inhibitor Money Can Buy

Not only does Hycrete technology reduce water absorption, it also protects the steel reinforcement. Hycrete admixtures reduce corrosion by water and dissolved salts, extending your structure's useful life and reducing replacement costs.

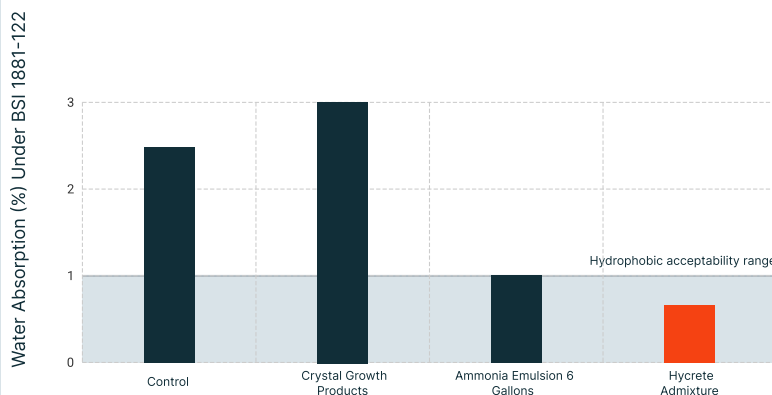
### In the Concrete for the Life of the Structure

Hycrete admixtures react with the concrete mix forming a permanent chemical bond. The molecule does not break down. It won't leach out. Reapplication is never required.

### Water Absorption Reduction

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

#### WATERPROOFING PERFORMANCE

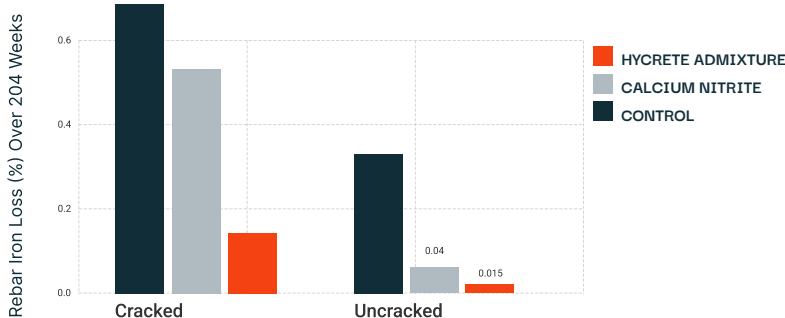


South Carolina Independent Lab Testing: 40/60 Structural Mix, 0.40 W/C 611 Type I-II Cement Polycarboxylate Superplasticizer

### Corrosion Performance

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

#### CORROSION PERFORMANCE



Hycrete effectively reduces rust even in cracked concrete.

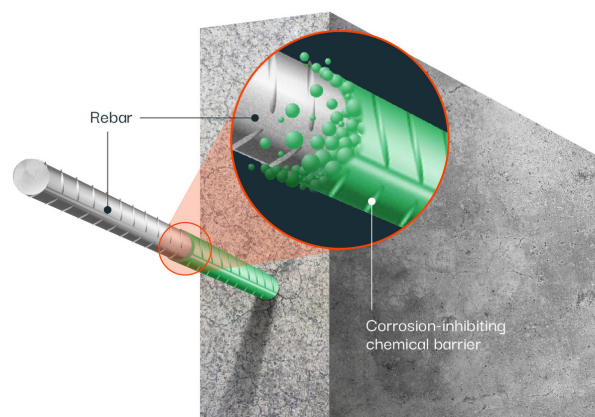
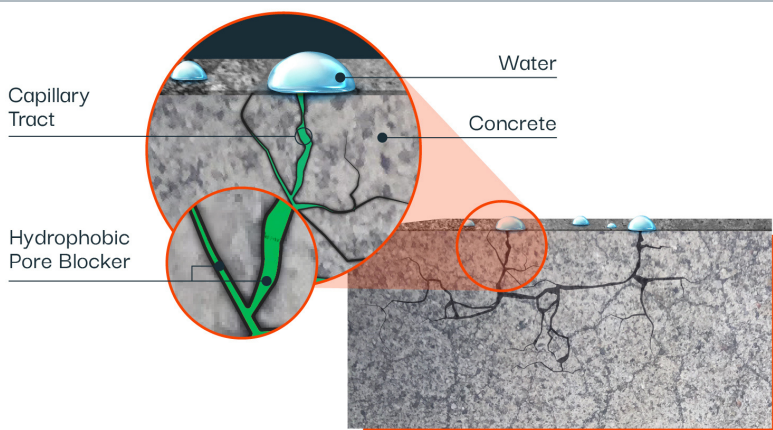
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## How Hycrete Works

### Hycrete's Admixtures Turn Concrete into a Waterproof Membrane and Inhibit Corrosion

Hycrete's products are environmentally friendly, Cradle to Cradle certified water-soluble admixtures. When electronically dosed into the concrete mix, the Hycrete molecule immediately reacts with metals in the concrete and transforms into a water-insoluble polymer. These hydrophobic pore blockers (HPBs) are distributed with the mix water, plugging the micro-capillaries and lining the capillary walls with a hydrophobic coating. As a result, keeping water out and blocking the diffusion of corrosive ions through the concrete. HPB's also bond to the surface of steel reinforcements, creating a robust protective layer shielding the rebar from corrosion. This patented dual action of the Hycrete molecule, keeps water out of the concrete and corrosive agents away from the steel.



## Hycrete360 System Approach

### Turn Waterproof Concrete into Warranted Waterproof Construction

Hycrete360 features our premium, industry-leading 10-year performance-based warranty, so you can move forward with confidence.

Hycrete's hydrophobic admixtures deliver waterproof concrete, but waterproof concrete is not waterproof construction. That requires a systems approach – Hycrete360. Hycrete gets involved 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's technical team follows up over the warranty period, to ensure the structure is watertight. If it leaks, we fix it, without finger pointing.



**Concrete Technologies**



**Engineering Design**



**On-Site Consulting**



**Warranty Protection**

## Applications

- Cast in Place Walls (1 & 2 sided forms)
- Cast in Place Structural Slabs
- Shotcrete Walls
- Foundation Walls
- Slabs on Grade
- Parking Structures
- Concrete Foundations
- Water Features
- Marine Structures
- Basements
- Structural Stairs
- Temporary Roofs
- Green Roofs
- Podium Decks
- Pre-Cast
- Elevator Pits
- Tunnels
- Outdoor Balconies
- Potable Water Tanks

## Sustainability

### 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 services provide the most sustainable waterproofing approach available. When Hycrete admixtures are used, the embodied carbon footprint is dramatically reduced, resulting in more durable and fully recyclable concrete structures.

### Cradle to Cradle Gold Certified

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.



## LEED Credits

### 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 Certified Cradle to Cradle™

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 are certified Silver under the Cradle To Cradle™ program (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.

