

Hycrete ^{.01}Element™

Waterproofing Admixture for Concrete

Description

Conventional concrete absorbs water and dissolved salts through a network of capillaries and cracks. Hycrete Element™'s hydrophobic properties shut down the capillary wicking action that carries water and dissolved salts to the reinforcement layer and provides real-time protection at the time of placement. Hycrete Element™ is a commercial-grade, waterproofing agent that also protects steel reinforcement from corrosion by repelling water and chlorides and by creating a monolayer of protection on the reinforcement itself. Under BSI 1881-122, approved concrete with Hycrete Element™ admixture dosed at one gallon per cubic yard performs with less than 1% water absorption.

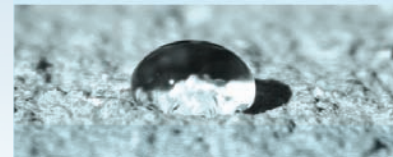
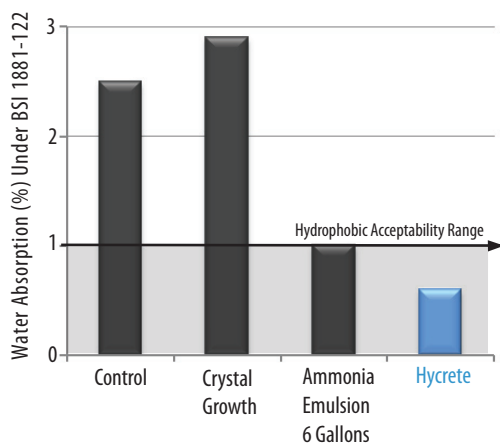
Recommended Applications*:

- ❖ Replacement for conventional membrane systems if the IntegraTek™ Waterproofing System is followed (*Please contact your local Hycrete, Inc. representative for details on the IntegraTek™ Waterproofing System*)
- ❖ Hybrid system for use in conjunction with membranes
- ❖ Water barrier (for use when temporary protection is needed for buildout)
- ❖ LEED Projects
- ❖ Commercial Sub-Grade Walls & Slabs
- ❖ Parking Garages
- ❖ Retaining Walls
- ❖ Podiums and Plaza Decks
- ❖ Potable Water Tanks
- ❖ Tunnels
- ❖ Water Treatment Facilities
- ❖ Temporary Roofs
- ❖ Green Roofs
- ❖ Mechanical Rooms
- ❖ Outdoor Balconies

* Please contact a Hycrete, Inc. representative for suitability of your application.

Waterproofing Performance

Hycrete consistently exceeds the benchmark for hydrophobic concrete, which is less than 1% water absorption after 30 minutes of continuous soaking



Features & Benefits

- ❖ Water-Tight Construction
- ❖ Accelerated Construction & Reduced Delays
- ❖ Reduced Costs
- ❖ Enhanced Durability
- ❖ Simplified Process & Improved Safety
- ❖ Sustainable Construction

Product Notes

H Y C R E T E E L E M E N T

■ Admixture :	Form: Liquid
■ Hycrete Element™	Color: Yellow
	Shelf Life: 2 years
	Specific Gravity: 1.04 - 1.07
	Chloride Content: Nil
	pH: 7.5 - 9.0
■ Performance	Water Absorption: Less than 1% under BSI 1881-122 when used according to Hycrete specifications
	Slump: Neutral
	Workability: Excellent
	Cure Time: Neutral
	Compressive Strength: Average 10% reduction (corrected via mix adjustments)
■ Compatibility	Most concrete admixtures and all variations of Portland cements or replacement materials such as PFA, GGBFS, and microsilica. Hycrete Element™ is compatible with most surface applied sealants and external membrane protection systems.
■ Curing	No special requirements. Concrete should be cured in accordance with the project specifications.
■ Packaging	1 gallon, 5 gallon pails; 55 gallon drums; 275 gallon totes; bulk tanker delivery
■ Storage & Handling	Hycrete Element™ must be stored above 32 °F (0 °C) and below 212 °F (99 °C)
■ Precautions	For structural concrete applications, compressive strengths may be lower than control mixes. User should perform trial mixes prior to placement and make necessary adjustments to the mix design as needed.

Cradle to Cradle

Cradle to Cradle (C2C) is a nature-inspired design protocol that evaluates, optimizes, and certifies materials, products, and manufacturing processes for their human health, ecological, and life cycle impacts. Hycrete technology is certified as *Cradle to Cradle* Silver since it is composed of materials that are not environmentally hazardous or toxic towards humans, manufactured using renewable energy sources, and developed using recycled content as part of a closed loop manufacturing process.



Related Documents

Material Safety Data Sheet : Hycrete Element™

Additional Information

For additional information regarding Hycrete Element™ or its use, please contact your Hycrete, Inc. representative.

For warranty concerns, please contact: 1-866-HYCRETE / 1-866-492-7383 or warranty@hycrete.com

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