







## Constructing a Waterproof Building

A waterproof building foundation crucial for a structure's durability. It prevents water intrusion, protecting against mold and costly repairs. Investing in waterproofing safeguards property and enhances building integrity over time.

Waterproof wall construction is crucial for building durability and moisture protection. Breathability allows ventilation, reducing mold and promoting a healthier indoor environment, enhancing energy efficiency.



## Fact

Quality Concrete starts with QUALITY CEMENT and a good MIX DESIGN

### But

Even with Quality Concrete, it is not uncommon for hairline cracks to occur

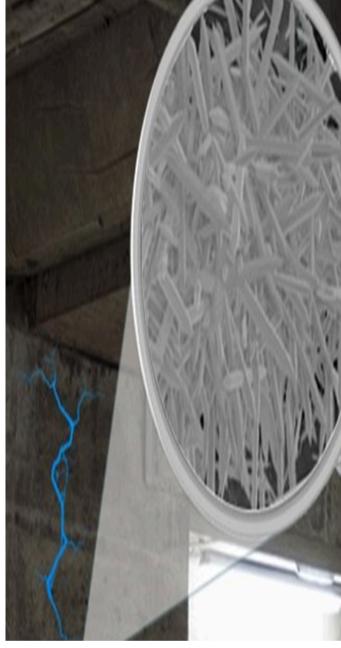




## What is CrystalKrete™?

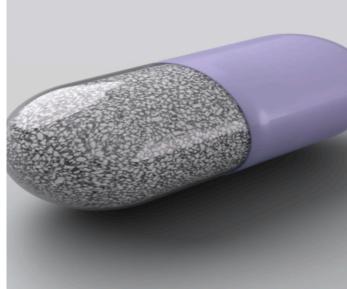
**CrystalKrete™** is a non-toxic, crystalline waterproofing concrete that offers selfhealing properties, allowing it to reseal hairline cracks (up to 0.6mm) over its lifespan.





## Crystal Krete™

Capsules filled with Crystaline special fibers



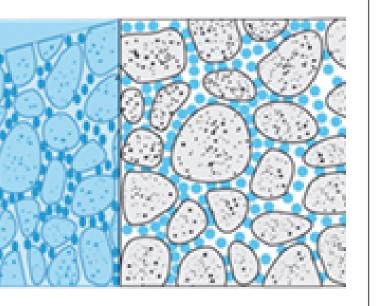
# Benefit of CrystalKrete™

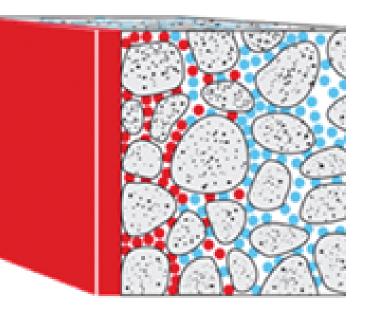
- Integral Waterproofing
- Self-Healing
- Chloride diffusion is reduced >50%
   Prolongs service life of the structure

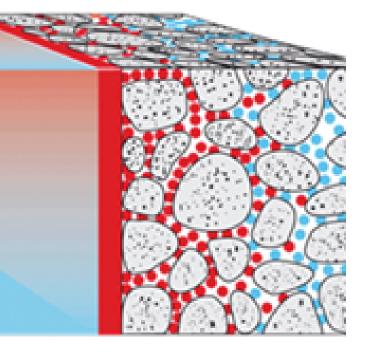






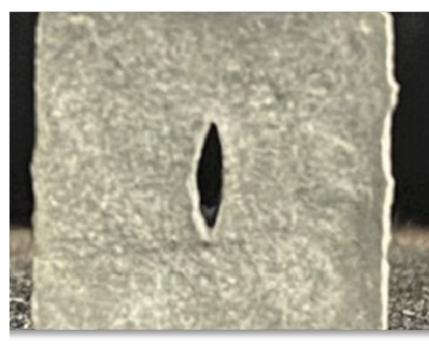


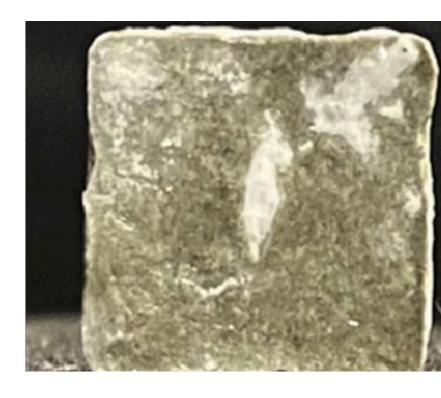




## Hydrophilic Crystalline System

**Crystal-Krete™** Hydrophilic Crystalline Technology reacts with water and cement by-products to form non-soluble crystals that fill pores and micro cracks in concrete, enhancing density and waterproofing, even years after production.





Parameter	Summary of Benefits
Sulphate Resistance	No internal expansion and cracking under sulfate attack
Chloride Ion Diffusion	Chloride diffusion is reduced > 50% thereby prolongs service life of the structure
Carbonation	Increased Resistance to Carbonation due to reduction in voids and capillaries
Freeze-Thaw cycle	Improved resistance when used with air entrainment admixtures
Concrete Permeability	Water Permeability is drastically reduced (98.1%)
Self-Healing Capacity	Concrete self-heals new micro-cracks up to 0.6mm
Compressive Strength	Compressive strength increases slightly (up to 10%)
Durability Enhancement	REDUCED PERMEABILITY, LOW SHRINKAGE, SELF-HEALING of Micro-Cracks, HIGHLY RESISTANT to aggressive and chemical environments thereby leads to enhancement in concrete durability and service life of ECO-KRETE ADMIX treated Concrete Structures

#### PRODUCT COMPARISON

#### **CRYSTAL KRETE ADMIX 204**

- Dosage: 1 1.5% by weight of cement
- Reduction in water permeability by upto 98.1%
- Resists extreme hydrostatic pressure
- Becomes an integral part of the substrate
- Highly resistant to aggressive and chemical environments
- Can seal static hairline cracks up to 0.6mm
- Allows concrete to breathe
- Non-toxic, No VOCs
- Permanent
- Added to the concrete at time of batching and therefore is not subject to climatic restraints
- 25 KG = BAHT 2,495

#### XYPEX C-1000 NF

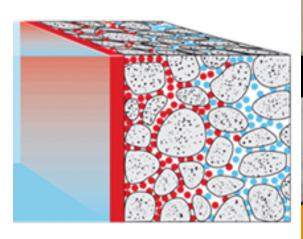
- Dosage: 1 1.5% by weight of cement
- Reduction in water permeability by upto 93%
- Resists extreme hydrostatic pressure
- Becomes an integral part of the substrate
- Highly resistant to aggressive and chemical environments
- Can seal static hairline cracks up to 0.4mm
- Allows concrete to breathe
- Non-toxic, No VOCs
- Permanent
- Added to the concrete at time of batching and therefore is not subject to climatic restraints
- 25 KG = BAHT 9,000





# INTEGRAL WATERPROOFING











- Reservoirs
- Sewage and Water Treatment Plants
- Secondary Containment Structures
- Tunnels and Subway Systems
- Underground Structures
- Foundations & Swimming Pools
- Parking Structures
- Pre-Cast Concrete Components





# Thank you!

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With strong distribution capabilities, investments in diverse manufacturing facilities, and a robust global support network, we facilitate exceptional commercial flows. Our energyproducts, efficient construction developed using patented technology, offer high-quality, costeffective solutions that construction time and expenses.



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