

Crystal Krete™

By ICM TECHNOLOGY (THAILAND) CO., LTD.



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

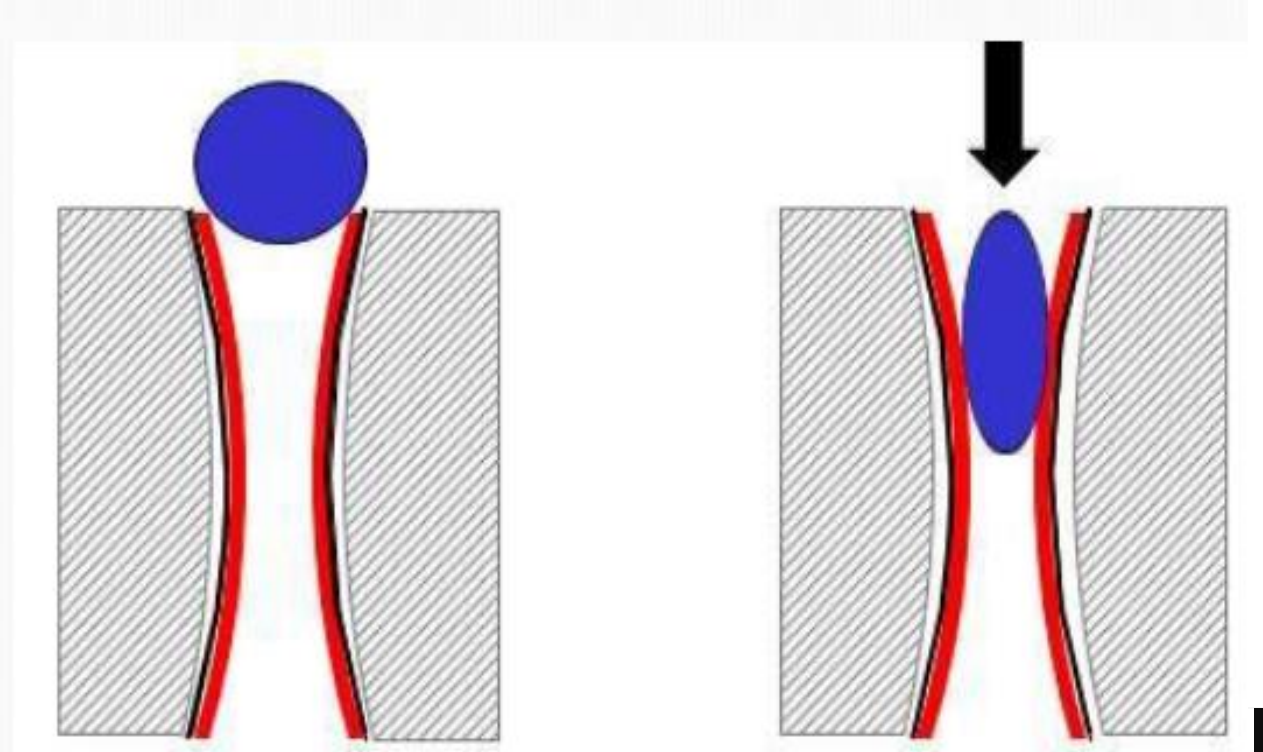
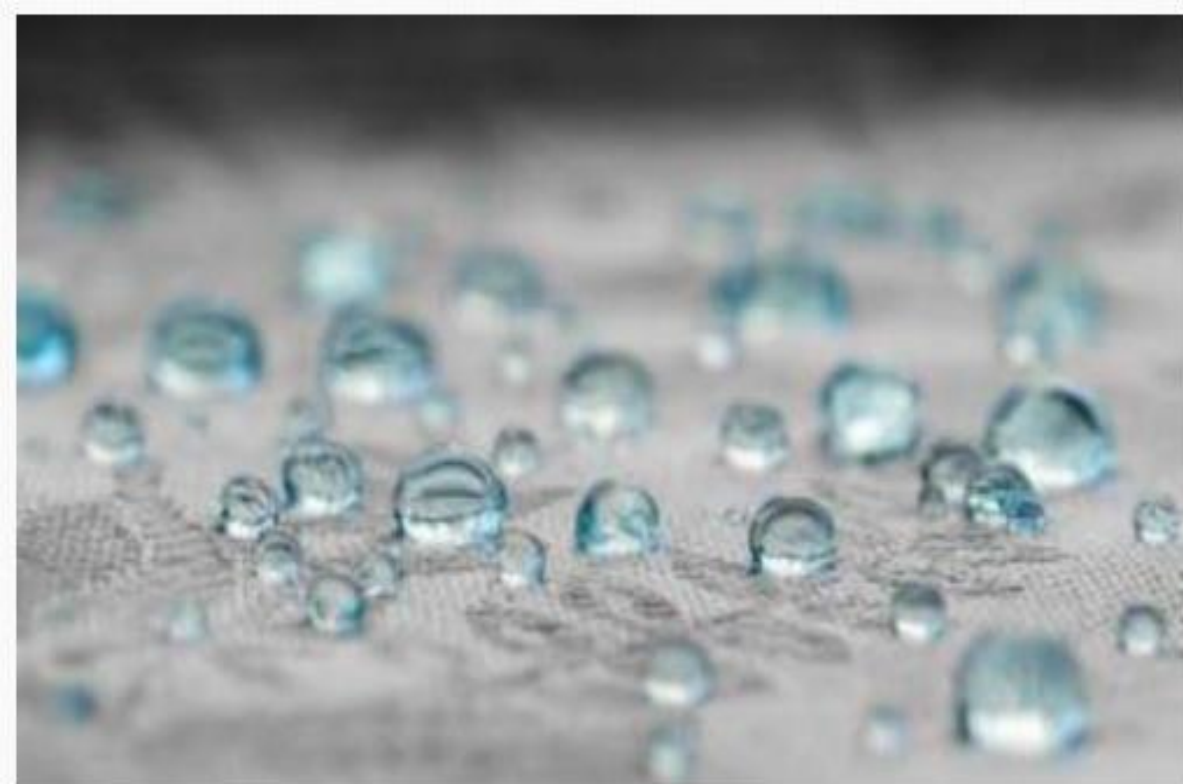
What is Crystal Krete™?

Self-healing Integral Waterproofing
Cement

HYDROPHOBIC V/S HYDROPHILIC CRYSTALLINE SYSTEMS

During concrete formation tiny holes and capillaries have been created that make concrete porous which allows water (and other liquids) to penetrate into the capillary structure

Hydrophobic products causes increased surface tension and thereby repel the water from the surface but under high hydro-static water pressure, these chemicals often fails and water penetrates through the voids and capillaries





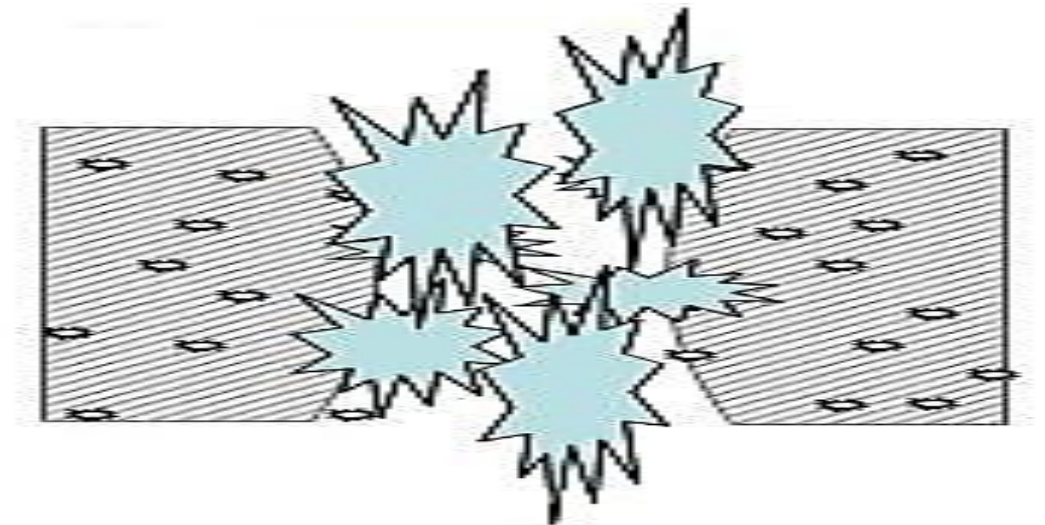
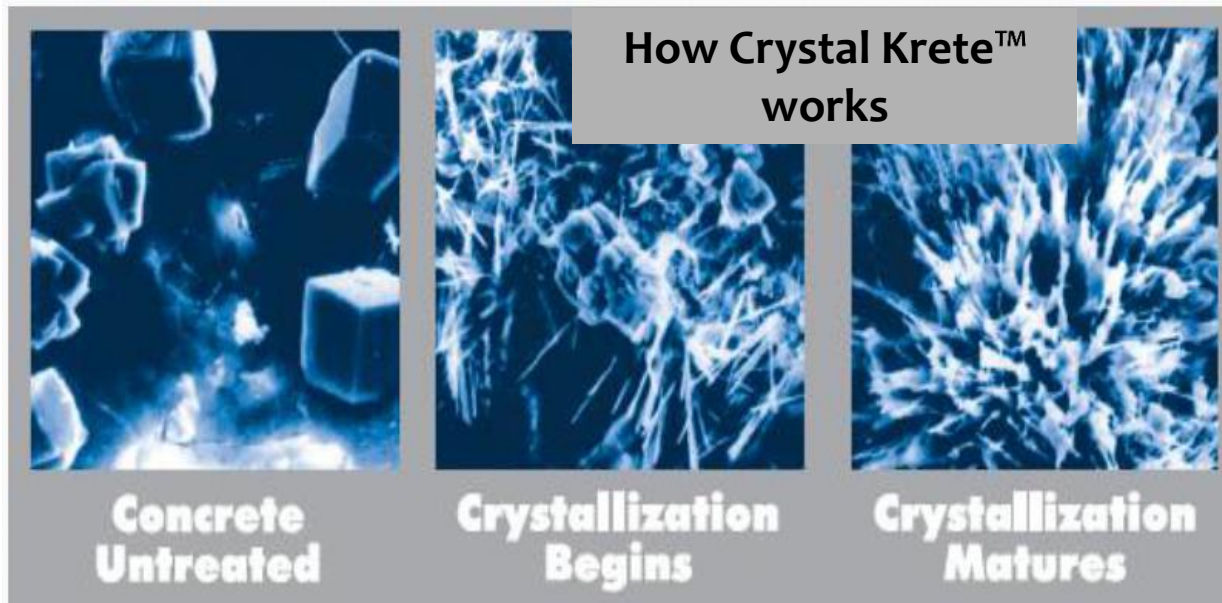
CRYSTAL KRETE™
Self-healing Waterproofing Cement

**Advanced Hydrophilic Crystalline
Technology**

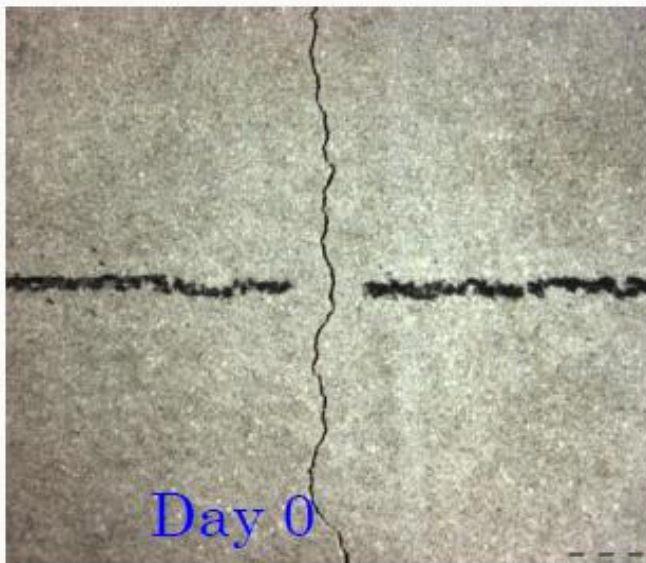


Crystal-Krete™ Hydrophilic Crystalline Technology - In the presence of water, the active ingredients of Crystal-Krete™ react with calcium hydroxide and other by-products of cement hydration to form non-soluble crystals that fill and plug the pores and micro cracks in concrete—even years after concrete was produced. These crystals block the pores of the concrete, making it dense & waterproof.

Crystal-Krete™ transforms the entire concrete structure into an impermeable water barrier with lasting integral waterproofing properties.



- Micro cracks in concrete may appear due to settlement in buildings. Water then starts to travel through these cracks.
- Active ingredients in CRYSTAL-KRETE™ reacts with this seepage water to form crystals, which plug the crack and its surrounding capillaries.
- This process will trace the seepage water until it is completely plugged, thereby retaining the structure's original water tightness.
- Cracks are repaired optimally and simultaneously, unlike an externally applied waterproofing membrane.





Crystal Krete™

Self-healing Integral Waterproofing Cement



A mission to reduce carbon footprint

INNOVATIVE CONSTRUCTION MATERIALS

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