

SMART CONCRETE®

INTEGRAL WATERPROOFING & DURABILITY SOLUTIONS



Marina Bay Sands, Singapore



Vancouver Convention Centre, Vancouver, Canada



Canal Santa Lucia, Monterrey, Mexico

THE MOST EFFECTIVE CONCRETE WATERPROOFING AND HARDENING SYSTEMS IN THE WORLD.

Kryton's Smart Concrete® solutions contain proprietary technologies that allow concrete to respond to its environment to protect itself against water penetration and corrosion, or erosion and abrasion. Since Kryton products waterproof and harden from the inside out, they create either a permanent waterproof barrier stopping the transmission of water or increase concrete hardness to dramatically extend the structure's service life. Kryton also works from the outside in, it waterproofs cracks and improves the durability of concrete structures. Our products are demanded in over 50 countries, from Canada to China, India to Indonesia, the UAE to the USA.



CityCenter, MGM Resorts Int'l & Dubai World, Las Vegas, USA



Bintulu Paragon, Bintulu, Malaysia



TELUS Garden, Vancouver, Canada

PROTECT YOUR INVESTMENT WITH SMART CONCRETE:

TECHNOLOGICALLY ADVANCED CONCRETE THAT AUTOMATICALLY RESPONDS TO ITS ENVIRONMENT

Kryton's Smart Concrete® solutions are used by the construction industry because of our time-tested and proven superior performance, extensive warranties and technical support. A building. A hydroelectric facility. A bridge. All are more than concrete and steel, brick and glass. They're investments of time, money and talent that convert visions into reality. These investments deserve to be protected with Kryton's Smart Concrete solutions that provide concrete with permanent waterproofing, increased durability and a substantially increased wear life. That's why world-class builders protect with Kryton.

SMART WATERPROOFING

Only Kryton permanently protects concrete through integral waterproofing using proprietary Krystol® technology. Krystol Internal Membrane™ (KIM®) lowers the permeability of concrete, and is used in place of surface applied waterproofing membranes. Our revolutionary self-sealing technology and comprehensive support system transforms concrete into an ever-vigilant, waterproof barrier. Short term, you'll shave weeks off construction schedules, cut waterproofing costs and maximize your building footprint. Long term, you'll avoid leaks and costly callbacks. All of which explain how we can offer an industry-leading 25-year warranty, and how 40-year-old Kryton projects are as dry today as when they were first built.

SMART HARDENING

Kryton solutions harden concrete permanently ensuring structures have significantly extended service lives. Our integral hardening admixture, Hard-Cem®, is used to increase abrasion and erosion resistance of concrete. Its unique technology extends concrete wear life up to 6 times, overcomes deficiencies of surface-applied hardeners and allows usage in horizontal, vertical or inclined concrete and shotcrete surfaces. Hard-Cem reduces maintenance costs, improves concrete sustainability, expedites construction schedules and can be used with air-entrained concrete.

SMART PROTECTION FOR THE JOB YOU DO.

OWNER

- Shorten construction schedules
- Build right to the property line **
- Reduce costly repairs
- Extend concrete service life

ENGINEER

- Time-proven technology
- Independent testing and certification
- Extensive technical support
- Remove installation risks and concerns *

APPLICATOR

- Step-by-step application instructions
- Work under any jobsite condition
- Eliminate stress and cost of callbacks
- Eliminate exposure to harmful dust *

ARCHITECT

- Achieve greater design flexibility
- Build to LEED standards
- Keep your project on time and on budget

GENERAL CONTRACTOR

- Enhance jobsite productivity
- Save time, build faster
- Reduce labor and workmanship issues

CONCRETE PRODUCER

- Technical support is tailored to your needs
- Add value and margin to your concrete
- Create co-branded waterproof or hardened concrete mix designs

** Applies to KIM only

* Applies to Hard-Cem compared to surface applied (dry-shake) hardeners

KRYSTOL INTERNAL MEMBRANE™ (KIM®) WATERPROOFING ADMIXTURE: NO ONE COMES CLOSE.

1 PROVEN CRYSTALLINE TECHNOLOGY

WATERPROOFING FOR THE LIFE OF YOUR STRUCTURE.

Kryton's proprietary crystalline technology reacts with water and un-hydrated cement particles to form insoluble needle-shaped crystals. Kryton products have been waterproofing concrete since 1973. In 1983, Kryton invented KIM, the original crystalline waterproofing admixture, and revolutionized the way we build today. Independent testing, combined with the ultimate test of time, have proven that Kryton waterproofing can protect your structure throughout its service life.

2 STEP-BY-STEP INSTALLATION

ENSURE YOUR SUCCESS WITH OUR WELL-DEFINED PROCESS.

Kryton helps you save both time and money by eliminating risks associated with waterproofing. You get expert help—before, during and after construction—with instructions, technical materials and videos that make it easy to use our products to create watertight structures that last. We also provide full specifications and training for architects, engineers, general contractors, sub-trades and concrete producers.



3 EXTENSIVE FIELD-LEVEL SUPPORT

GET TECHNICAL ANSWERS WHEN YOU NEED THEM.

No other waterproofing company matches Kryton's level of integrated support. Kryton Authorized Distributors around the world have received extensive training on the use of Kryton products and have decades of experience. Have a specific question? You'll always be able to contact a Kryton technical support person no matter where you are in the world.

4 INDUSTRY EXPERTISE

THE MOST TRUSTED NAME IN WATERPROOFING

Kryton has independent accreditation from construction authorities around the world such as the International Code Council Evaluation Service (ICC-ES), NSF International and British Board of Agreement (BBA). Kryton is a proud contributing member of industry and academic guiding bodies such as American Concrete Institute (ACI) and the International Concrete Repair Institute (ICRI) and are known as the most trusted name in waterproofing.

5 BEST-IN-INDUSTRY WARRANTY

BUILD CONFIDENTLY WITH KRYTON.

We offer the industry-leading 25-year warranty for our Krystol Internal Membrane™ (KIM®) admixture. Want further assurance? Kryton has the only crystalline waterproofing admixture associated with projects that have outlasted their warranties.

HARD-CEM® INTEGRAL HARDENING ADMIXTURE: MAKES CONCRETE SURFACES LAST LONGER.

1

**PROVEN HARDENING
TECHNOLOGY**

**ABRASION AND
EROSION RESISTANCE
INSIDE YOUR CONCRETE.**

Kryton's concrete hardening solution has a proven durability performance track record having been used since 2004 in over 5.6 million m² (60 million ft²). Hard-Cem increases the hardness of the concrete paste and reduces fine and coarse aggregate exposure that creates degradation to concrete surfaces. Since it is integral, it continues to offer surface wear resistance throughout its life. By increasing the abrasive-erosive service life of concrete, maintenance costs are reduced and replacement of the concrete is substantially deferred.

2

**EASY
INSTALLATION**

**ADDED TO THE
CONCRETE ITSELF BY
YOUR LOCAL PRODUCER.**

No more installation issues typically associated with concrete hardeners. Hard-Cem treated concrete is delivered to your jobsite and saves a number of installation steps. It not only eliminates jobsite dust, it also improves concrete finishing and removes risk of delamination. Hard-Cem can be used in horizontal and vertical applications, as well as pre-cast and shotcrete. Hard-Cem removes all challenges associated with traditional methods of increasing surface wear durability.

3

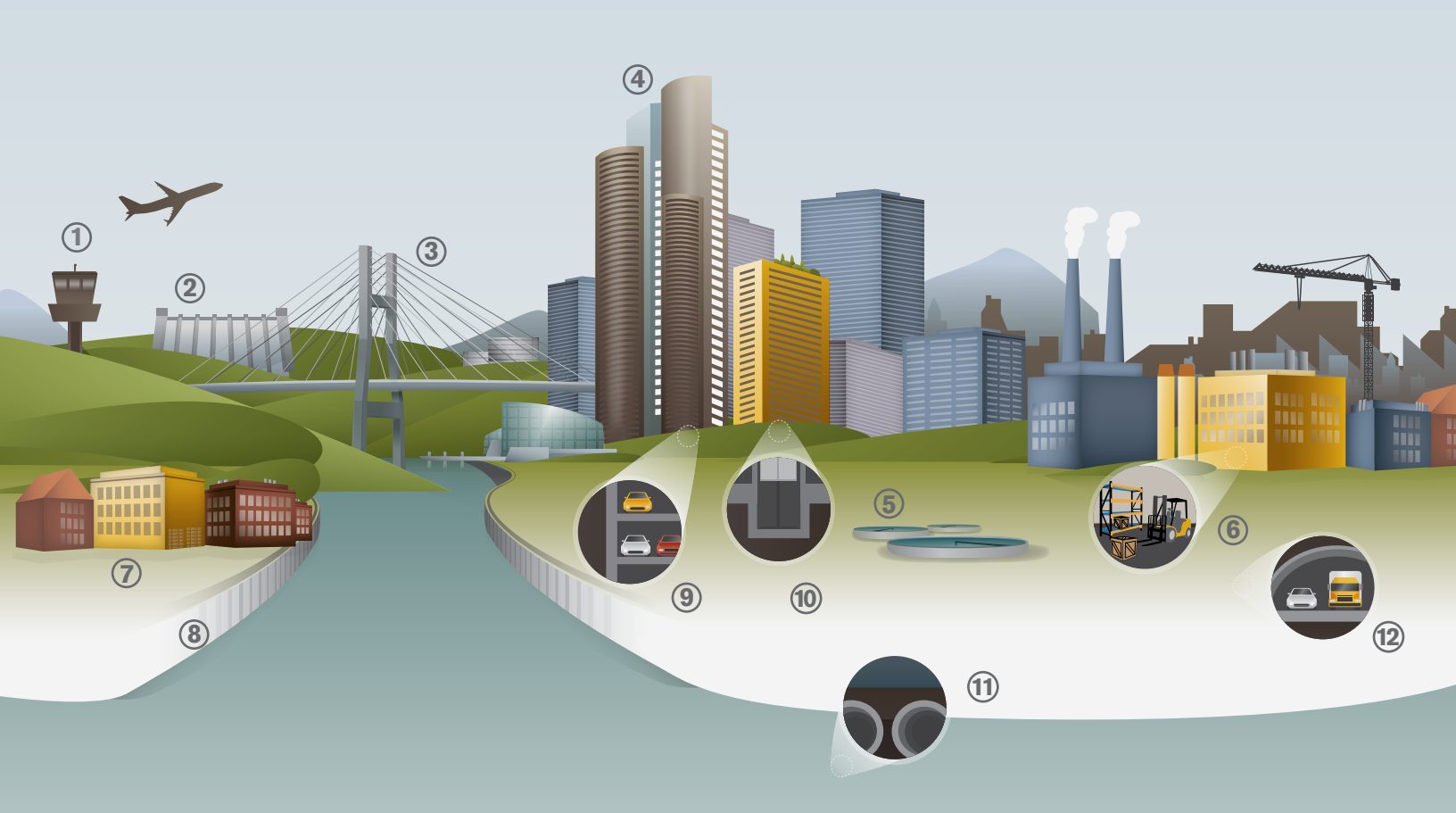
BEST VALUE

**SUPERIOR PRODUCTS
SUPERIOR RESULTS.**

Hard-Cem is better value than the traditional methods of reducing wear such as: dry-shake hardeners, liquid densifiers and high-performance concrete. Since it is added to the concrete at the time of batching and is integral to the concrete, installation issues are eliminated; construction schedules are shortened; and consistent performance is delivered that will save you time and money over the life of your structure.



KRYTON HAS YOUR SOLUTION.



1	2	3	4	5	6
Runways, highway pavements and intersections	Hydro dams, irrigation, sluiceways, spillways and drainage conduits	Bridge decks	Fire suspension reservoirs	Wastewater treatment plants, water reservoirs and tanks	Manufacturing and warehouse floors
7	8	9	10	11	12
Service and repair bays; utility and maintenance buildings	Marine structures: sea walls, dry docks and jetties	Underground parking, parking structures, ramps and aprons	Basement foundations and elevator pits	Culverts, underwater tunnels and precast pipes	Transportation tunnels

PRODUCTS THAT PERMANENTLY PROTECT

Admixtures & Additives

Kryton's admixtures and additives include solutions that provide concrete waterproofing and durability. Kryton's Waterproofing Admixtures are added to concrete or mortars at time of batching and include Krystol Internal Membrane™ (KIM®) and Krystol Mortar Admixture™ (KMA). They provide waterproofing protection that replaces the need for traditional surface-applied waterproofing treatments and add long-term durability to your structure.

Kryton's Hard-Cem® is an integral hardening admixture used to increase abrasion and erosion resistance of concrete, extending wear life up to 6 times. Hard-Cem is added to the concrete at the time of batching to increase the hardness of the concrete and expand concrete wear life in both vertical and horizontal applications.

Kryton's Con-Fume® silica fume is an industry standard, pozzolanic, supplementary cementing material used to produce high performance concrete or shotcrete, mortar or cementitious grouts requiring increased strength and/or reduced permeability of the hardened cement matrix.

Surface-Applied Waterproofing

Kryton's Surface-Applied Waterproofing treatments are applied to concrete to protect against the ingress of water and include the Krystol T1® & T2® Waterproofing System, Krystol Broadcast™ and Hydrostop™ Sealer. They provide waterproofing protection that adds long-term durability to your structure.

Construction Joints & Details

The Krystol Waterstop System is used to permanently waterproof concrete construction joints, penetrations, tie-holes and control joints. The Krystol Waterstop System has been tested and proven to outperform other waterstops. Kryton is the only integral waterproofing company that offers fully integrated concrete waterproofing solutions.

The Krystol Waterstop System is comprised of Krystol Waterstop Grout™, Krystol Waterstop Treatment™, Krytonite™ Swelling Waterstop and Kryton's Crack Inducing Waterstop. These products are used in a variety of ways to waterproof all construction joints and details found in concrete construction.

Concrete Repair

Kryton's Concrete Repair products are specially designed to resurface, waterproof and repair leaking cracks, penetrations, tie-holes and defective concrete from the positive or negative side of the water pressure. The product line includes Krystol Plug™, Krystol Repair Grout™ and Krystol T1®, which can be used together to form the Krystol Leak Repair System, as well as Krystol Bari-Cote™.

Kryton's Concrete Repair products are 100% compatible with the entire line of Krystol products. They can be used in concrete that was built yesterday or structures needing waterproofing repair after decades of service.

THE MOST EFFECTIVE CONCRETE WATERPROOFING AND DURABILITY ENHANCING SOLUTIONS IN THE WORLD.

Kryton International Inc. is the inventor of the crystalline waterproofing admixture and has been waterproofing concrete structures with its proprietary Krystol® technology since 1973. It has won awards for innovation, manufacturing, best place to work and entrepreneurial awards. In 2017, Kryton acquired Cementec Industries and is now distributing Hard-Cem®, an integral (not surface-applied) concrete hardener for increased abrasive and erosive wear resistance of ready-mix concrete, precast concrete and shotcrete. Kryton is now the only manufacturer of Silica Fume products in Western Canada. It is an active member of the American Concrete Institute, International Concrete Repair Institute, American Shotcrete Association and many other thought-leading organizations. Kryton exports its products to over 50 countries.

Kryton headquarters are in Canada with 7 regional offices in China, India, Mexico, Singapore, UAE, USA and UK. Our solutions are sold by over 50 distributors worldwide. To find the Kryton distributor nearest you, visit: www.kryton.com

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