

# SMART CONCRETE®

INTEGRAL WATERPROOFING & DURABILITY SOLUTIONS



## 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.

*Dhamra Port, Orissa*



*Chandigarh City Centre, Punjab*



*Marina Bay Sands, Singapore*



# 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. Longterm, you'll avoid leaks and costly callbacks.

### 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

# KRYTON HAS YOUR SOLUTION.



<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
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
<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
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. Krystol Internal Membrane™ (KIM®) is our award winning admixture which is added to concrete at the time of batching in the RMC, transit mixer or on-site

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 extend concrete wear life in both vertical and horizontal applications.

### Surface-Applied Waterproofing

Kryton's Surface-Applied Waterproofing treatments are applied to concrete to protect against the ingress of water and include Krystol T1® & T2® 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® & T2®, 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 Buildmat has been providing waterproofing solutions for over 22 years to the Indian subcontinent and was one of the first brands to set up a production unit for crystalline waterproofing products in India with technical know-how of Kryton - Canada. The Company is a pioneer in producing BIS certified crystalline waterproofing admixtures, thus meeting the preferred 'Make In India' standards.

Kryton Buildmat is a subsidiary of Kryton International Inc. - Canada. The parent Co. (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 International is an active member of the American Concrete Institute, International Concrete Repair Institute, American Shotcrete Association and many other thought-leading organizations. Kryton - International exports its products to over 50 countries.

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