

CONSTRUCTION & REPAIR OF CONCRETE PARKING STRUCTURES



BE SURE. BE KRYTON.

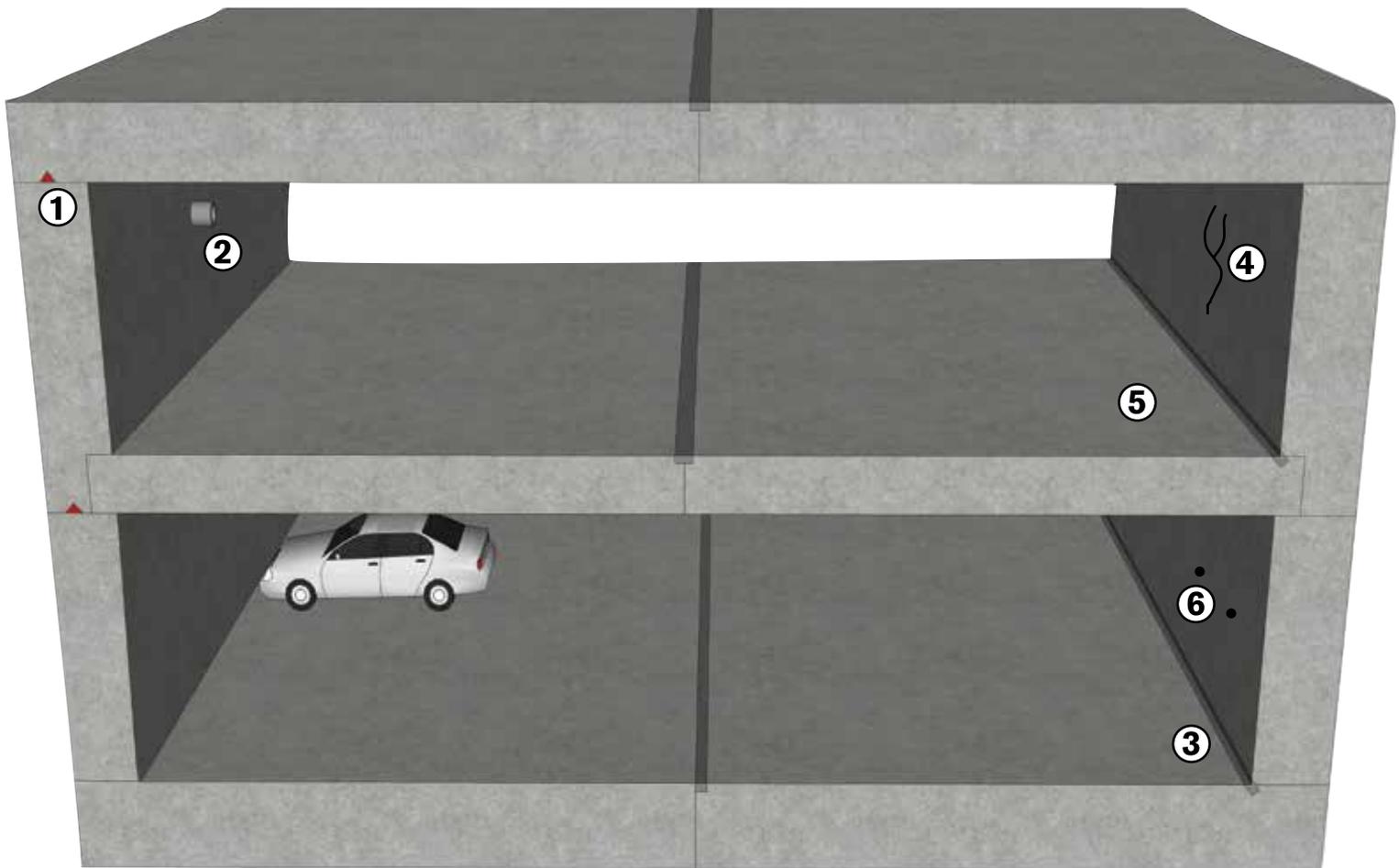
CONSTRUCT WATERTIGHT PARKING STRUCTURES THAT LAST

Kryton takes the risk out creating durable waterproof concrete parking structures.

Parking structures are different from other concrete buildings due to:

- Reduced roofing, cladding, and climate control that result in a more severe direct or indirect exposure to rain, snow, sunlight, temperature variations and airborne chlorides;
- Water and waterborne contaminants can cause corrosion of reinforcing steel and compromise the structural integrity of the structure;
- Vehicular occupancy that imposes heavy moving loads and deposits deicing salts;
- Large plan size that magnifies the potential for damage caused by restraint of movements and forces associated with volumetric changes.

All of these factors influence the durability of parking structures and require consideration in their design. Kryton's Concrete Waterproofing System reduces risk by transforming concrete into a powerful water resistant barrier which extends the durability of your new parking structure.



Kryton's complete waterproofing system makes concrete more durable:

- Kryton's Waterproofing System self-seals leaks and protects rebar from corrosion
- Promotes more efficient use of time and money
- Replaces leak prone membranes

REPAIR AND EXTEND THE LIFE OF EXISTING PARKING STRUCTURES

Extend the life of your parking structure with the use of Kryton's complete Waterproofing System.

- Repair of parking structures damaged by ground water penetration and leaks
- Stops water and waterborne contaminants entering the structure
- Avoids premature deterioration of structural components
- Extends the durability of your parking structure

1



Create a watertight structure by using Krystol Internal Membrane™ (KIM®) in precast, cast-in-place or shotcrete walls and slabs. KIM builds the waterproofing right in to the concrete, eliminating the need for unreliable membranes.

4



Waterproof leaking cracks and joints using the Krystol Crack Repair System.

2



Waterproof pipe penetrations and tie-holes with Krystol T1® and Krystol Bari-Cote™.

5



Waterproof where existing membranes have failed or where there was no initial waterproofing with Krystol T1 & T2®; a cementitious slurry system that becomes an integral part of the concrete to prevent water ingress.

3



Construction joint protection with a crystalline chemical barrier by using Krystol T1 and Krystol Bari-Cote.

6



Repair leaking pipe penetrations and tie holes with Krystol T1 and Krystol Bari-Cote.



The Erickson, Underground Parking
Vancouver, B.C, Canada

The Erickson is a luxury, 20-story concrete and steel-trussed building with glass on all sides and an undulating shape that rises from the edge of False Creek in downtown Vancouver, surrounded by water on three sides.

They chose Kryton's Krystol Internal Membrane (KIM) admixture in all below grade concrete. KIM was used for all below grade perimeter walls.

The Krystol Waterproofing System eliminated any need for exterior waterproof membranes, saved time and labour costs, and ensured a guaranteed leak-free building that can proudly bear the Arthur Erickson name.



Al Mashfa Private Hospital,
Underground Parking, Jeddah, Saudi Arabia

Kryton's Krystol Internal Membrane (KIM) admixture was used to waterproof the base slab and perimeter walls. The Krystol Waterproofing System saved the team thousands of dollars and shaved 48 days off their construction schedule.

"The implementation of all typical waterproofing methods would have been near impossible for our project. Particularly given the challenges we incurred during excavation: the 12-meter (39.4 feet) cutoff wall and extreme head pressure. We required an advanced waterproofing system that could withstand all of these obstacles especially during the casting of the matt slab."

– Mr. A. Hamis Elmas, Project Manager & Architectural Consultant, Al Mashfa Group



Crowne Plaza Hotel, Below grade &
swimming pool, Gurgaon, Haryana, India

Krystol Internal Membrane (KIM), a cementitious admixture, was used in the construction of all below grade walls and the swimming pool foundation and walls of the Crowne Plaza Hotel in India. Because KIM can be mixed into the transit mixer right at the site, it requires no installation time and also reduces the risk of human error.

Krystol T1, a surface-applied slurry, was used in all the floor slabs and sunken slabs of the basement. Cold joints were treated with Krystol Bari-Cote, a fast-setting waterproof grout. In the external plaster of the hotel, Krystol Mortar Admixture (KMA) was used to protect the building from dampness accumulated during rainfall.

Applicators in Ahmedabad, Bangalore, Chandigarh,
Chennai, Hyderabad, Kolkata, Mumbai and Pune.

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Kryton Buildmat Co. Pvt. Ltd.

212, Outab Plaza, DLF Phase-1
Gurgaon, -122002, Haryana, India
Telefax: 0124-4381140/41
E-mail: info@krytonbuildmat.com
Web: www.krytonbuildmat.com

Regd. Office

433, Ansal Chamber-II
6, Bhikaji Cama Place
New Delhi-110066, India

Kryton International Inc.

Technical Headquarters
1645 East Kent Avenue
Vancouver, BC Canada V5P 2S8
Tel: +1.604.324.8280
Web: www.kryton.com



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