



# 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.

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.

2



Waterproof pipe penetrations and tie-holes with Krystol Waterstop Grout™.

3

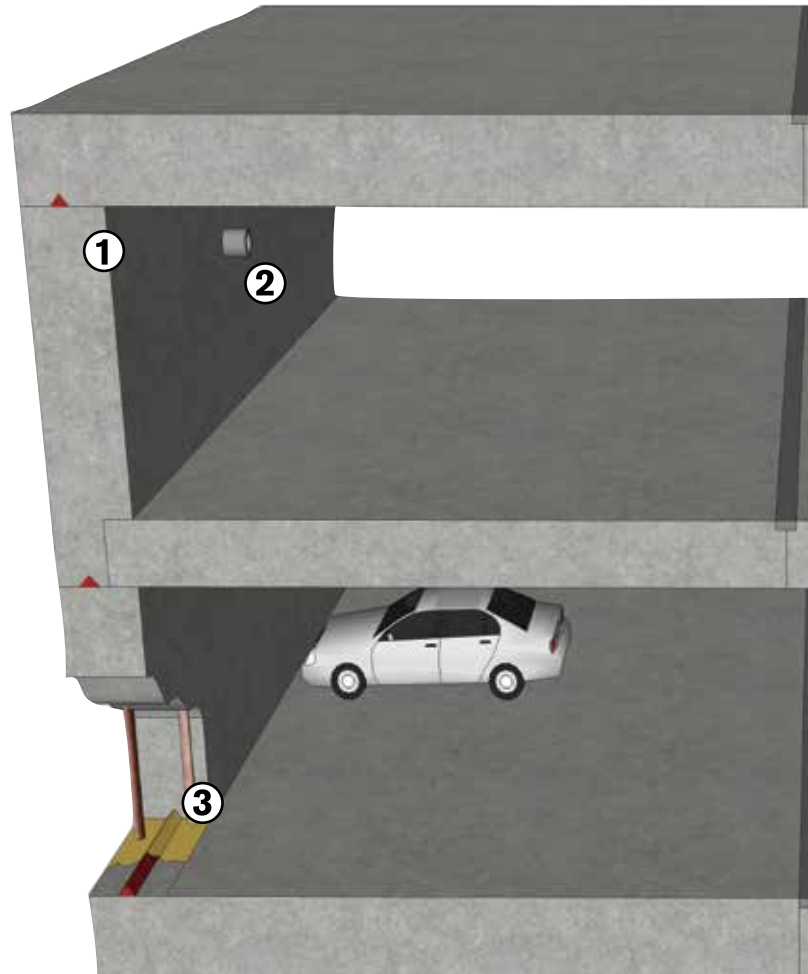


Create two levels of construction joint protection with both a physical and crystalline chemical barrier by using the Krystol® Waterstop System.

4



Construct a water resistant seal at suspended slab control joints.



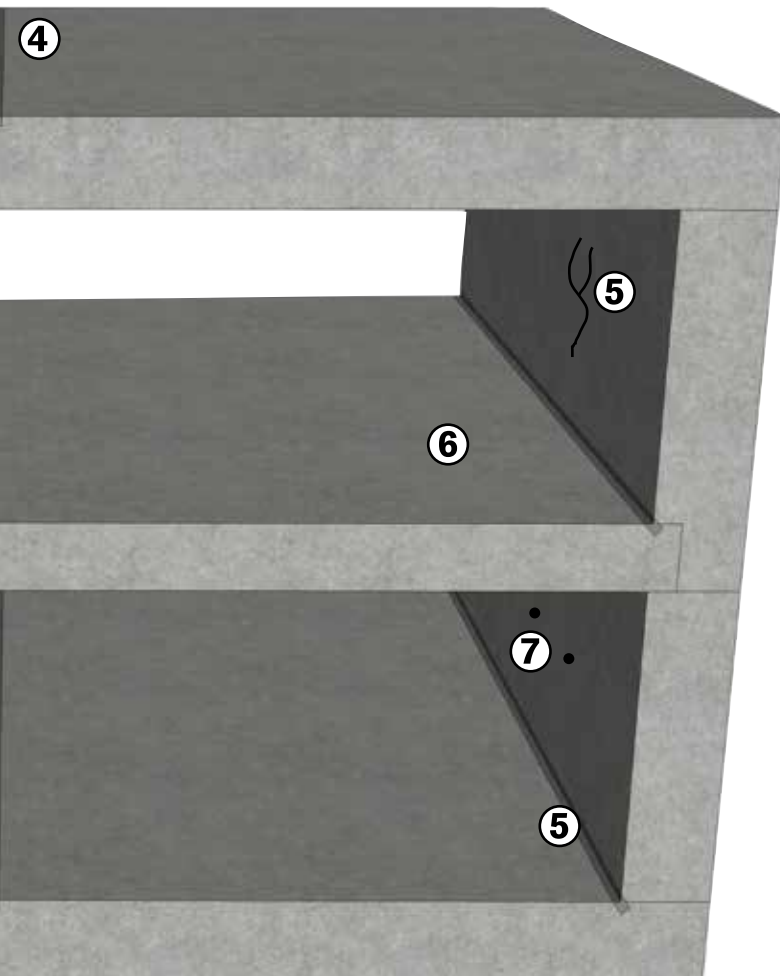
Kryton's complete waterproofing system makes concrete more durable:

- 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



5 Waterproof leaking cracks and joints using the Krystol Leak Repair System.



6 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.



7 Repair leaking pipe penetrations and tie holes with Krystol Leak Repair System.



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. In addition to the waterproof concrete, the builder also applied thousands of lineal feet of Kryton's Krystol Waterstop System to seal the below grade construction joints, giving the joints the same level of crystalline protection that is in the concrete.

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 and the Krystol Waterstop System was used for all the cold joints in the slabs and 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



KK Times Square Underground Parking  
Kota Kinabalu, Malaysia

For KK Times Square the developers used Kryton's Krystol Internal Membrane (KIM) admixture, surface-applied Krystol T1 & T2, Krystol Waterstop Joint System and Krystol Leak Repair system. The Krystol line of products met the developer's requirements for:

- affordability and ease of application
- a system that would be long lasting, minimizing future repair costs and inconveniences
- a waterproofing system that could withstand significant hydrostatic pressure and protect against the corrosion of steel reinforcements

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