

the kryst ball



volume 7 | issue 2

KIM™ admixture replaces external waterproofing membranes.

Krystol™ Waterstop System seals construction joints.

Orlando Airport Chooses Krystol™ Concrete Waterproofing System for Elevator Upgrade Project

Many of the estimated 28.9 million people that visit the Orlando International Airport each year use the airport's parking facilities. In recent years, however, increased traffic has created a bottleneck at the four access points that carry visitors from the parking garages into the terminal.

To improve traffic flow, the airport is currently upgrading the four access points, each of which includes a tunnel from the parking area to an elevator lobby, four elevator shafts and escalators. The tunnels, elevator lobbies and escalators are being upgraded, the 4-story elevator shafts are being removed and reconstructed and small, slow hydraulic elevators are being replaced.

Since the airport continues to operate at

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Millions of people travel through the Orlando airport each year.

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Did You Know?

KIM™ concrete withstands up to 460 vertical feet (140 metres) of head (water) pressure? Using a method developed by the US Army Corp of Engineers USACE, a recent study performed at the University of British Columbia, Canada showed that, while a



Krystol™ withstands extreme hydrostatic pressure.

variety of other concrete samples failed when exposed to that degree of pressure, KIM™ concrete remains strong and leak free.

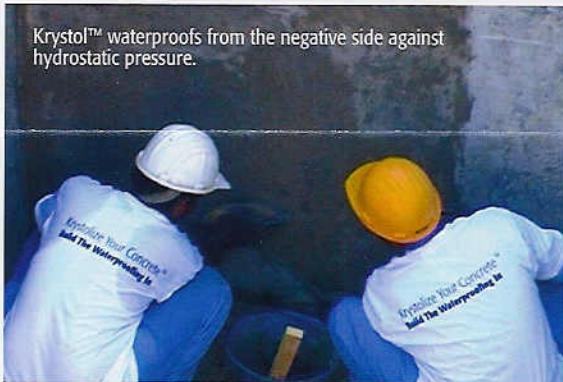


full capacity during the improvements, access points are being upgraded two at a time. Further complicating the situation is the fact that, with the local water table only three to four feet below ground, the concrete tunnels and lower ends of the elevator shafts are subjected to as much as 10 feet of static head pressure.

While the traditional concrete waterproofing method in Florida is bentonite sheet systems, the project team was not convinced that this system could guarantee leak-proof construction, particularly at the joints between existing and new concrete. Instead, the team opted to use integral crystalline waterproofing, choosing Kryton's Krystol™ Concrete Waterproofing System.

Krystol™ Internal Membrane (KIM™) waterproofing admixture was used in all new concrete poured in the tunnel and elevator shaft upgrades.

To prevent against future water penetration, existing above-grade concrete was treated with Kryton's Hydrostop™ penetrating sealer. Krystol™ T1/T2, a cementitious, brush-applied crystalline waterproofing system, was applied below grade to the waterline. Finally, the joints between existing and new concrete were sealed with the Krystol™ Waterstop System to provide a permanent waterproof barrier. ▀



Krystol™ Keeps Water In (& Contaminants Out) Of Underground Drinking Water Tank

When searching for a cost-effective, low-maintenance waterproofing system for the Al-Falak building, a new residential/commercial structure in Dammam, Saudi Arabia, the project team's search was complicated by several factors.

Firstly, local soil contains extremely high levels of sulphates and chlorides that weaken concrete and corrode steel reinforcements. Secondly, the region's hot, dry climate shortens concrete's setting time, resulting in shrinkage, cracking and weaker concrete.

Finally, because the project also includes an underground drinking water tank, the waterproofing system needed to be non-toxic and protect against the migration of water and contaminants into the tank.

The Al-Falak building team chose Kryton's Krystol™ Internal Membrane (KIM™). The KIM™ Admixture System is a simple and effective method to permanently waterproof concrete structures. KIM™ eliminates the need to use conventional waterproofing membranes, thereby reducing construction costs, both in time and materials over the life of the structure.

By blocking the movement of waterborne chemicals and contaminants through concrete, KIM™ safeguards steel reinforcement against corrosion and protects drinking water. KIM™ is certified non-toxic by NSF International, a third-party certification provider that develops standards for food, indoor air, the environment and water.

When used in hot climates, KIM™ helps to cool and internally cure concrete, reducing premature moisture loss that results in shrinkage cracks. Unlike external waterproofing membranes that deteriorate in hot, dry conditions, KIM™ is unaffected by the desert climate and remains effective for the life of the structure. ▀

Case Study



Construction Specifications Canada (CSC) Awards Achievement

Kari Yuers, Kryton's President and CEO, recently received CSC's "Merit of Achievement" award for outstanding contribution. "Being involved in the construction industry through organizations such as the CSC is a cornerstone of Kryton's success," says Yuers.

This is the second such award that Kari has received during her 13 membership in CSC. As an Executive Director and current Treasurer of the BC chapter Kari has given numerous presentations on topics such as industrial & commercial flooring, specialty coatings, and protective systems.

CSC is celebrating its 50th year as a multi-disciplinary, non-profit association dedicated to the improvement of communication, contract documentation, and technical information in the construction industry.

Kryton Products Restore Church and Protect Priceless Paintings

Built in 1935 in a traditional Byzantine architectural style, Brooklyn's Russian Orthodox Church of the Holy Trinity is known for its priceless wall paintings depicting a variety of religious scenes.

By summer 2003, weather and air pollution had taken their toll on the church. Its front entranceway and large columns were badly soiled. Mortar in the exterior brick had eroded allowing water to leak into the church's bell tower and seep through tower floors into the church below. As a result, plaster on the interior walls and ceilings was damaged and the church's historic paintings were being destroyed.

Last fall, the church underwent a month and a half of repairs to remove nearly 70 years of grime, stop the leakage and protect the wall paintings from further damage.

First, the exterior brick surfaces on the bell tower and chimney were cleaned and repointed and two coats of Kryton's Hydrostop™ sealer were applied to prevent further leakage.

Designed specifically for brick, masonry and concrete, Hydrostop™ reacts below the brick's surface to form an insoluble, water-repellent barrier. Because

the finished application is invisible, the original appearance and breathability are maintained. And since Hydrostop™ will not fade, crack, peel or wear away, it offers long lasting waterproofing protection.

With the exterior surfaces sealed, Kryton's Krystol™

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Portable water can be stored in below-grade tanks made from KIM™ concrete.



Coating Basics

Maintaining and Protecting Concrete, Masonry and Brick Building Facades

No matter how well you care for the exterior of your concrete, brick or masonry building, the porous nature of these materials makes them susceptible to staining from dirt, grime, mold and mildew.

Concrete is also susceptible to efflorescence, a white substance that forms when water in concrete carries salt to the surface and then evaporates, leaving the salt behind. Although generally harmless, efflorescence, dirt and mildew can detract from the appearance of your structure and possibly affect property values.

Prevention is key to maintaining the façade of your building. Save time and money later by protecting new concrete and masonry surfaces with a durable exterior paint or coating designed to protect against the elements and resist dirt, mold and mildew.

If you prefer a more natural look, or as an extra measure of protection, use a high-quality, durable, clear sealer. Look for a sealer that offers long-lasting, invisible protection, maintains brick's original appearance and breathability and resists cracking, yellowing or peeling.

There are a number of products available today specifically designed to prevent efflorescence. The best products are those that react at and below the surface to form micro films around the particles to prevent water penetration and the formation of efflorescence.

If your building has begun showing signs of mold, mildew, efflorescence or just grime buildup, a number of regular strength and concentrated cleaners are available to tackle a wide range of problems. If your building is soiled with carbon from soot or pollution, look for a product that offers a built-in oil and grease emulsifier. Cleaners are also available that target specific

Get more from your concrete with proper maintenance and prevention.

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Kryton Receives Approval from Aramco Services Company

Kryton International has been approved as an official vendor for Saudi Aramco, a Saudi Arabia-based oil company. Saudi Aramco is a multi-national petroleum company responsible for approximately one quarter of world oil reserves. The Company maintains diverse facilities including water tanks, pipelines, restaurants and swimming pools. Kryton's distributor in Saudi Arabia is "ARTE (Al-Rashid Trading Establishment)".



"Coating Basics..." continued from page three

challenges such as efflorescence, lime, rust and other stains.

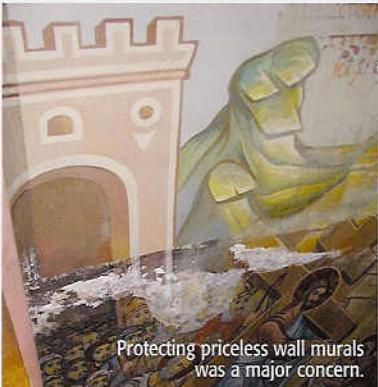
Once your building has been cleaned and restored, protect your hard work with a quality sealer to keep the structure looking terrific and to save cleaning and maintenance costs in future.

For more information on maintaining your concrete, brick or masonry building or for advice on addressing a specific cleaning challenge, contact your Kryton distributor, visit www.kryton.com, or call 1-800-267-8280. □

Kryton has more than 170 products for concrete waterproofing, repair and maintenance.



"Kryton Products Restore Church..." continued from page three



Concrete Waterproofing System was used to upgrade and waterproof concrete slabs within the bell tower and to create a new waterproof concrete cap for the chimney. Finally, a combination of Kryton cleaning products were used to clean and restore the church's front steps and massive columns.

Despite a number of heavy rainstorms, the bell tower, chimney and church remain dry. Pleased with the results, the church has begun the task of restoring its interior historic wall paintings back to their original beauty. □

Kryton Happenings

Kryton Introduces Three New Coatings

In response to dealer and customer requests, we've added three new products to our line of quality sealers and coatings:

Epox 16™: a two-component, self-leveling epoxy coating that provides durable protection for high-traffic floors in commercial, industrial and retail buildings and is suitable for use in USDA- and CTIA-inspected facilities.

Kryton S3™: a clear concrete sealer, hardener and dust-proofer that makes concrete more durable, protects against chemicals, acids and staining and improves adhesion of coatings and adhesives. Kryton S3™ is suitable for the floors of parking garages, factories, warehouses, coolers and freezers and basements.

Piranha Paint™: a durable, exterior acrylic latex paint that provides a long-lasting finish, excellent freeze-thaw resistance, resists dirt and mildew and protects against UV, cracking, peeling and fading.



Kryton's concrete laboratory is at the forefront of new product development and quality assurance.

Kryton Keeps Growing

We are pleased to announce these additions to our worldwide distribution team:

C. Danath, Inc.

Louisville, Kentucky, USA

Tel: (502) 544-0523, Fax: (502) 584-7204

Email: cdeckard@construct-solutions.com

iwaterproof.com

Midvale, Utah, USA

Tel: (801) 789-2837, Fax: (801) 789-4314

Email: nick@iwaterproof.com

A.P.C. Industries Co., Ltd.

Bangkok, Thailand

Tel & Fax: +6 (602) 318-2035

Email: apci@apcithailand.com

T.A. Group S.A.R.L.

Beirut, Lebanon

Tel: 961-1-350271, Fax: 961-1-343708

Email: tagroup@cybena.net.lb

Cleveland Cement Contractors Inc.

Independence, Ohio, USA

Tel: (216) 741-3954, Fax: (216) 741-2876

Email: toloughlin@clevelandcement.com

Concrete Solutions Inc.

Salt Lake City, Utah, USA

Tel: (801) 266-5699, Fax: (801) 281-0488

Email: ron@e-concretesolutions.com

Al Jaber Trading & Contracting

Doha, Qatar

Tel: 974 4323737, Fax: 974 4438002

Email: bbp_1960@yahoo.com

Carolina Specialties, Inc.

Winston-Salem, North Carolina, USA

Tel: (336)760-0081 Fax: (336) 760-0343

Email: carospec@carospec.com

the krytol ball is the official newsletter of the Kryton Group of Companies

Worldwide Distribution

Barbados Phone: 1-246-435-8600 e-mail: kryton@longview.bb

Technical Headquarters

8280 Ross Street, Vancouver, B.C., Canada V5X 4C6

Toll Free: 1-800-267-8280 Phone: 1-604-324-8280 e-mail: info@kryton.com

www.kryton.com

