



SANIKA
WATERPROOFING SPECIALISTS





“ Our company has vast experience in the mining, industrial and commercial environment as can been seen from our references ”

BRAND HISTORY

SANIKA Waterproofing has been firmly entrenched in the roofing and waterproofing industry since 1987.

During this time, we have been instrumental in developing and manufacturing unique, high quality industrial, mining and commercial roofing and waterproofing systems. These include patented and registered roofing systems and specialised cladding and sheeting systems; a custom developed sheet locking system and numerous waterproofing membranes and compounds.

Sanika are the proud exclusive distributors and applicators of Kryton Crystalline Concrete Waterproofing system and products in South Africa.

COMPANY OVERVIEW

Our work experience has been extensive within the Commercial, Industrial and Mining spheres.

We are currently actively involved in roofing and waterproofing consultation as well as Water Management, Concrete Waterproofing, Rejuvenation and Corrosion Protection Systems throughout the industry.

All our cost effective systems and application methods are designed to offer maximum protection to your structure during your guarantee period while our stringent quality standards and extensive experience ensure client satisfaction.

COMPANY STRUCTURE

Our company is structured to offer prompt and professional service at all times to ensure uninterrupted service to your facility.

Our staff members are highly trained and qualified in their areas of expertise and as a company we only utilise top quality materials ensuring our impeccable workmanship is unsurpassed by competitors. Sanika are fully BEE compliant.



"All Sanika staff are highly trained and qualified,"

STAFF PROFILE

The professional Sanika staff operating on our sites are experienced and have undergone comprehensive training in all waterproofing application methods. They have full security and medical clearance by Impala Platinum Refineries, Anglo Platinum Refineries and many more. Our dedicated and loyal teams apply their extensive knowledge and skill to each project and are backed by their site supervisors.

All Sanika staff are covered by Workman's Compensation insurance. Consequential damage and public liability insurance cover on all projects.

SYSTEMS

Our registered systems and application methods have already been utilised and approved by senior Impala Platinum, Anglo American, Investec Property Services, Spar Group, JHI, Johnson Matthey, Growthpoint Property Services and Broll Engineering Management and many more.



SERVICE PROFILE



- Concrete Roofing & Patio's
- Metal Roofing - Industrial and Commercial
- Tile Roofing



- Anti-Corrosive Systems
- Insulated Roofing Systems
- Energy Efficient Roofing Systems



- Industrial & Mining Anti-Corrosive Coatings
- Commercial & Residential Painting
- Industrial & Commercial Floor Coatings



- 100% Concrete Waterproofing
- Self Healing & Water-Pressure-Resistant From Any Direction
- Concrete Rejuvenation & Repair



Tel 011 425 3061 | info@sanika.co.za | www.sanika.co.za

OUR CLIENTS



JM
Johnson Matthey



GROWTH-POINT
PROPERTIES



Tel 011 425 3061 | info@sanika.co.za | www.sanika.co.za

Due to the success and expertise Sanika has in the
Waterproofing Industry, they are the exclusive
Distributors and Applicators for Kryton in Southern Africa.

SANIKA

WATERPROOFING SPECIALISTS

P.O. BOX 303, Benoni, 1500
Gauteng, South Africa

24 Davidson street, Rynfield, Benoni
1501, Gauteng, South Africa

PAUL SMIT

E | paul@sanika.co.za T | +27 (0) 11 425 3061
C | +27 82 565 4026 F | +27 (0) 11 425 6383

COLTE SMIT

E | colte@sanika.co.za
C | +27 82 928 5788



Offices in Canada, USA, UK, Singapore,
Barbados, China, India, and Dubai.
Plus, over 50 distributors worldwide there is a
Kryton distributor near you.

Find yours today. www.kryton.com

Kryton International Inc.

Technical Headquarters
1645 East Kent Avenue
Vancouver, BC Canada V5P 2S8
Tel: +1.604.324.8280
Fax: +1.604.324.8899
Toll Free: 1.800.267.8280
Email: info@kryton.com

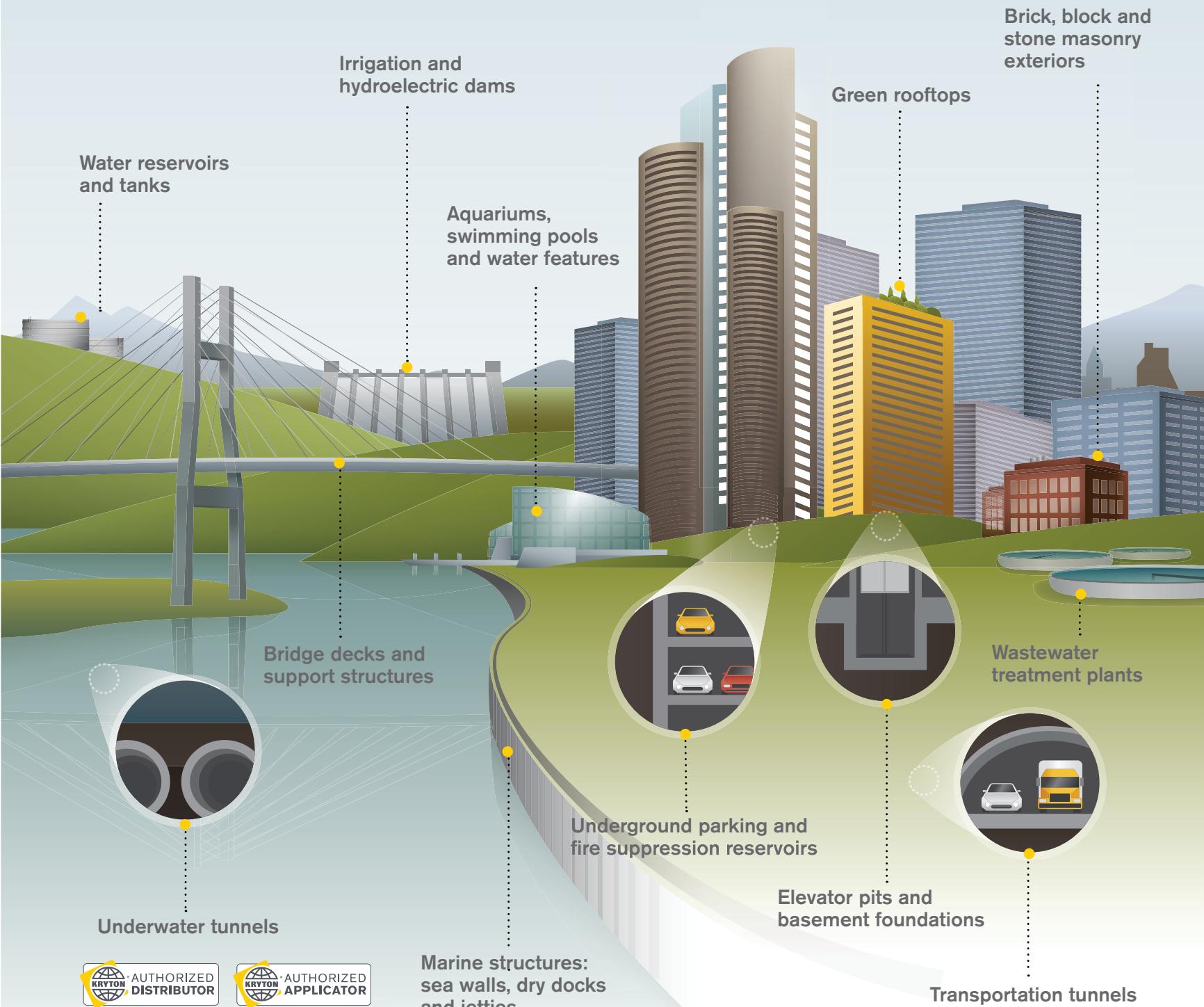


BE SURE. BE KRYTON.

CONCRETE WATERPROOFING SPECIFICATION GUIDE



BE SURE. BE KRYTON.



SANIKA
WATERPROOFING SPECIALISTS

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TAKE THE RISK OUT OF CONCRETE WATERPROOFING

KRYTON:

THE MOST EFFECTIVE CONCRETE WATERPROOFING SYSTEM IN THE WORLD.

Only Kryton protects concrete permanently. Our revolutionary self-sealing technology and comprehensive support system transform concrete into an ever-vigilant, waterproof barrier. Short term, you'll shave weeks off construction schedules, cut waterproofing costs by up to 40% and maximize your building footprint. Long term you'll avoid leaks, discoloration and costly callbacks. All of which explains how we can offer an industry leading 25-year warranty. And how nearly 40-year-old Kryton projects are as dry today as when they were first built.

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CONCRETE WATERPROOFING FOR NEW CONSTRUCTION

KIM

- KIM is a permeability reducing admixture for hydrostatic conditions (PRAH)
- Replaces unreliable exterior membranes, liners and coatings
- Easily added directly to ready-mix truck or a batch plant
- Self-Seals hairline cracks up to 0.5 mm
- Reactivates in the presence of moisture
- Effective against hydrostatic pressure up to 140 m (460 ft.) of head
- Waterproofs from any direction (i.e. positive or negative side)
- Impervious to physical damage and deterioration
- Safe for contact with potable water, certified by NSF to NSF/ANSI Standard 61
- Reduces concrete shrinking and cracking
- Provides excellent resistance to waterborne chemicals such as sulphates, chlorides, and acids
- Compatible with self-compacting concrete (SCC)

PERMEABILITY REDUCING ADMIXTURES

Krystol Internal Membrane™ (KIM)®

Krystol Internal Membrane or KIM is an integral crystalline concrete waterproofing admixture. When combined with water, KIM's proprietary chemicals react to form millions of needle-like crystals. These crystals grow and fill the capillary pores and micro-cracks in the concrete, blocking the flow of water. As time passes and stresses form new cracks, any incoming moisture causes the crystals to reactivate – ensuring continuous waterproofing over the years.

KIM is used in place of externally applied surface membranes to protect against moisture transmission, chemical attack and the corrosion of reinforcing steel.



Packaging

25kg (55 lbs) resealable pails

Mixer-ready bags in custom sizes to match your mix design

KEY BENEFITS

- Permanently waterproofs concrete
- Protects concrete and reinforcement from harsh environments
- Increases the durability and lifespan of concrete
- Lowers the cost of waterproofing by up to 40%
- Essential for blind-wall and shotcrete applications

KIM is the only admixture that demonstrates the performance of a hydrophilic crystalline PRAH. KIM provides the highest level of water resistance, self-sealing and field proven longevity, which proves its effectiveness as a PRAH.

The most recent version of ACI 212.3R-10: Report on Chemical Admixtures for Concrete includes a new chapter specifically about permeability reducing admixtures (PRA). PRAs can be divided into two categories:

- PRAN – Permeability Reducing Admixture for Non-Hydrostatic Conditions
- PRAH – Permeability Reducing Admixture for Hydrostatic Conditions

Why is KIM the only true PRAH?:

1. KIM has the highest level of water resistance when testing using DIN 1048-5 (permeability test).
2. KIM is the only admixture to independently demonstrate self-sealing properties.
3. KIM has the longest history of being used in the most demanding waterproofing projects.

For more detailed information, see ACI 212.3R-10: Report on Chemical Admixtures for Concrete.

The latest edition of the Portland Cement Association's Design and Control of Concrete Mixtures, 15th edition has also adopted the PRA terminology to describe concrete admixtures.

KIM CONCRETE WATERPROOFING ADMIXTURE

COMPARED TO OTHER TECHNOLOGIES

	KIM Concrete Waterproofing Admixture	Water Repelling Admixtures	Densifying Admixtures & Water Reducers	Surface Applied Membranes & Bentonite
Self-sealing of cracks	Yes	No	No	No
Resists high hydrostatic pressure	Yes. Proven up to 140 m (460 ft) of head pressure.	No, but will resist water penetration at low pressures.	Possibly, but provides no protection at joint and crack locations.	Easily compromised by a single puncture or imperfect seam.
Shortens construction schedule	These products come included in the concrete when it is placed. There is no need to schedule installation time. No concerns about delays or other issues caused by an installation sub-contractor.			Time must be scheduled for concrete curing, providing access, surface preparation, installation and protection.
Includes integrated joint system	Yes. A crystalline waterstop system is available to fully integrate with the admixture.	These systems do not have an integrated joint system, but may incorporate a third-party joint system at planned joints, such as PVC or swellable waterstop.		These products do not address joints separately.
Surface preparation	No surface preparation required.			Application surface must typically be cured, clean, dry and smooth. Forming oil and curing compounds must be removed. Irregular surfaces can be challenging.
Compromised by poor workmanship	No workmanship required, good concrete placing practices should be followed. (Note that proper concrete mix design is essential. The manufacturer should offer mix design review as part of their overall technical support).			Requires highly skilled and attentive workmanship to avoid errors such as pinholes and poorly lapped seams.
Affected by jobsite conditions	Not affected by jobsite conditions.			May become punctured or torn due to follow-on construction work or backfilling. Installation may also be affected by adverse weather or issues with scheduling or access to the concrete surface.
Ability to repair	Leaks will typically self-seal. Major defects can be repaired directly at the leak location using a proven and compatible crystalline repair system.	Commonly repaired using urethane or epoxy injection. This method is expensive and unreliable.		Typically not accessible for repair. Extremely difficult to locate the leak source. Attempts at injection can make the situation worse by de-bonding the membrane and/or separating its seams.

CONCRETE WATERPROOFING FOR EXISTING CONSTRUCTION

Krystol T1® & T2® Waterproofing System

Krystol T1 & T2 System is an “in-depth” concrete treatment that is applied as a slurry, spray or dry-pack to the surface of existing concrete structures. In the presence of water, the special chemicals in Krystol will react with the concrete to grow millions of long, needle-shaped crystals deep into the concrete mass. These crystals permanently block and prevent the passage of water through capillary pores, micro-cracks and joints. The concrete itself becomes the waterproof layer and the surface treatment is not required to remain intact for the system to be effective. As a result, the Krystol T1 & T2 System is extremely durable and will last the lifetime of the concrete.

Krystol T1 & T2

- Completely eliminates the need for costly and labour-intensive surface-applied membranes
- Is ideal for below grade applications, reservoirs and pipelines and can withstand high hydrostatic pressure
- The waterproofing is not affected by surface wear or abrasion and will never require re-application
- Self-seals micro-cracks and stops water ingress
- Safe for contact with potable water and Certified by NSF to NSF/ANSI Standard 61 Drinking Water System Components – Health Effects
- Prevents corrosion



Packaging

25 kg (55 lbs)
resealable pails

WATER PROTECTION FOR MORTAR AND CONCRETE MASONRY UNITS

Krystol Mortar Admixture (KMA)™

Krystol Mortar Admixture is specially formulated to provide long-term protection in cementitious mortar by reducing both permeability and absorption. Building maintenance and repair costs can be significantly decreased by improving durability and by preserving the original appearance. It contains Kryton's unique and proven Krystol technology to simplify installation and provide superior performance such as the ability to self-seal minor cracks and withstand water under pressure.

Krystol Mortar Admixture

- Lowers upfront building costs compared to surface applied sealers
- Simplifies installation, eliminating labour, and shortening the construction cycle
- Increases the life of your mortar and decreases building maintenance and repair costs
- Increases durability and delivers a permanent solution with materials designed to last the lifetime of the mortar
- Maintains the original appearance and cleanliness for lasting building attractiveness



Packaging

15 kg (33 lbs) resealable pails

CONCRETE WATERPROOFING FOR CONSTRUCTION JOINTS

Krystol® Waterstop System

Using Kryton's proven integral crystalline waterproofing technology, the Krystol Waterstop System forms an impenetrable, watertight seal at all joints. Comprised of two products, Krystol Waterstop Grout and Krystol Waterstop Treatment, the Krystol Waterstop System succeeds where others fall short.

For maximum results, Krystol Waterstop Treatment and Grout should be used together. By applying the Grout in a triangle-shaped strip, allowing it to cure and then using a layer of Krystol Waterstop Treatment, the Krystol technology immediately goes to work blocking water ingress.

Krystol Waterstop System

- Provides a permanent waterproof solution at construction joints
- Costs less than barrier systems
- Withstands extreme hydrostatic pressure
- Is durable and not prone to jobsite damage
- Is easy to install (up to 100 ft per hour)
- Safe for contact with potable water and Certified by NSF to NSF/ANSI Standard 61 Drinking Water System Components – Health Effects
- Adapts to curves and uneven surfaces
- Easy to inspect before and after concrete has been poured



Packaging

Both Krystol Waterstop Grout and Krystol Waterstop Treatment
25 kg (55 lbs) resealable pails

CONCRETE WATERPROOFING FOR CONSTRUCTION JOINTS

Krytonite™ Swelling Waterstop

Krytonite Swelling Waterstop is part of a new waterproof joint design that combines swelling waterbar with crystalline technology to achieve the ultimate protection for concrete construction joints against penetration of water – even under extreme hydrostatic pressures. Krytonite's unique synthetic rubber technology swells many times more than ordinary rubber or bentonite products and produces swelling pressure sufficient to withstand extreme hydrostatic pressure. Krytonite achieves superior swelling performance even when exposed to salt water or when used in chloride or sulfate contaminated soils.

Krytonite Swelling Waterstop

- Hybrid of crystalline and swelling technology
- Superior swelling performance
- Resists greater hydrostatic pressure
- Innovative trapezoid shape
- Best salt water performance



Packaging

1 box 20x5 mm (approx.. 0.8" x 0.2")
– 50 meters, 5x10m rolls

CONCRETE REPAIR FOR EXISTING CONSTRUCTION

Krystol Bari-Cote™

Krystol Bari-Cote is a high-strength waterproof grout that is specially designed to repair leaking cracks, holes and joints. It is specially formulated with Kryton's proven Krystol technology which combines chemically with water and concrete to form millions of needle-shaped crystals. These crystals grow in all directions to fill any capillary pores of the grout and surrounding concrete to block the passage of water. Use Krystol Bari-Cote to make waterproof repairs to honeycombs, rock pockets, spalled sections and other damaged areas of any concrete structure. Krystol Bari-Cote may also be spread thin over masonry surfaces to provide water resistance and protection.

Krystol Bari-Cote

- Contains Krystol Waterproofing technology
- Offers superior performance over common repair mortars
- Increases the durability of any concrete repair
- Versatile and easy to use



Packaging

- 25 kg (55 lb.)
- resealable pails

CONCRETE REPAIR FOR EXISTING CONSTRUCTION

Krystol® Leak Repair System

Unlike other concrete leak repair systems, Kryton's Krystol Leak Repair System protects from any direction, even against high water pressure. Because the system can be applied to either side of the concrete, there are no limits when it comes to repairing or waterproofing hard or impossible to reach areas. Using Krystol Plug and Krystol Repair Grout, Kryton's Krystol Leak Repair System can be put to work wherever the leaks are found and is truly the only permanent leak repair system.

Krystol Plug: A powder that, when mixed with water, can be used to immediately stop water flow through concrete cracks.

Krystol Repair Grout: A non-shrink grout specially formulated with crystalline technology.



Packaging

- Krystol Plug, Krystol Repair Grout are 25 kg (55 lbs) resealable pails

KRYTON HAS YOUR SOLUTION

Kryton products are proven in the harshest environments from buildings to dams to tunnels, our products work from the outside in and inside out, to seal cracks and improve the durability of concrete structures.

	Krytol Internal Membrane™	Krytol Broadcast™	Krytol T1® & T2® Waterproofing System	Krytol® Waterstop System	Krytol Mortar Admixture™	Hydrostop™ Sealer	Krytol® Crack Repair System	Hydrostop Restore & Protect System™	Plasti-Patch™
New Construction									
Water reservoirs & tanks	■	■	■	■					
Dams	■	■	■	■					
Wastewater treatment plants	■	■	■	■					
Aquariums	■	■	■	■					
Water features	■	■	■	■					
Swimming pools	■	■	■	■					
Green roofs	■	■	■	■					
Tunnels	■	■	■	■					
Underground parking garages	■	■	■	■					
Brick, block & stone masonry exteriors					■	■			
Bridge decks & support structures	■		■			■			
Foundations and basements	■	■	■	■					
Marine structures	■	■	■	■					
Elevator pits	■	■	■	■					
Shotcrete	■								
Precast	■								
Above grade	■	■	■	■	■	■	■	■	■
Existing Construction									
Water reservoirs & tanks			■				■		
Dams			■				■		
Wastewater treatment plants			■				■		
Aquariums			■				■		
Water features			■				■		
Swimming pools			■				■		
Green roofs			■				■		■
Tunnels			■				■		
Underground parking garages			■			■	■		■
Brick, block & stone masonry exteriors					■	■		■	
Bridge decks & support structures			■			■	■		■
Foundations and basements			■				■		■
Marine structures			■			■	■		
Elevator pits			■				■		
Hydroelectric facilities								■	
Transportation structures								■	■
Above grade					■	■		■	■

WE'VE GOT YOU COVERED.

Build Confidently with Kryton.

Kryton offers the best-in-industry warranty that guarantees Krystol-treated areas of your structure will remain watertight during the warranty period. Our standard warranties include the leading 25-year warranty for our Krystol Internal Membrane (KIM) admixture and 10-year warranty for our surface applied products. Want further assurance? Kryton has the only crystalline waterproofing admixture associated with projects that have outlived their warranties.



All Kryton products are covered by our standard warranty, which guarantees every product is free from defects of manufacture. Our extended Krystol Assurance Program is a 10-year warranty that covers all labour and materials required to repair any leaks that occur at no cost to the owner or builder.



The Boeing Development Center was constructed using KIM in 1983 and has well out lived its warranty.

Industry Expertise

Kryton not only meets industry standards such as ICC-ES and NSF International, we help raise them. We work with industry, academic and government bodies around the world to develop certification standards and testing methodologies.

The logo consists of the letters "BBA" in a stylized font inside a house-shaped outline. Below it is the text "BRITISH BOARD OF AGREEMENT" and "CERTIFICATE NO 05/4217".	British Board of Agreement (BBA) – No 05/4217 Krystol Internal Membrane-HS (KIM-HS) a reactive crystalline admixture used to provide watertight concrete.
The logo consists of the letters "CE" enclosed in a circle.	European CE Mark (CE) – Krystol Internal Membrane-HS (KIM-HS) meets all applicable European Union directives, safety guidelines and quality standards.
The logo consists of the letters "NSF" inside a circle. Below it is a small box containing the text "Certified to NSF/ANSI 61".	NSF – Krystol products are certified by NSF to NSF/ANSI standard 61Drinking Water System Components — Health Effects. NSF is a widely respected worldwide certification provider that develops national standards for food, indoor air, environment and water.
The logo consists of the letters "GB" inside a circle.	GB Standard – Chinese national standards issued by the Standardization Administration of China (SAC), the Chinese National Committee of the ISO and IEC. Mandatory standards are prefixed "GB".
The logo features a stylized tree and building design with the text "DUBAI MUNICIPALITY" below it.	Dubai Municipality (UAE) – Krystol Internal Membrane (KIM) has received a "Technical Approval Certificate" from the Dubai Central Laboratory Department as a concrete admixture to enhance water resistance and durability of concrete.
The logo consists of the letters "ES" inside a circle with a registered trademark symbol.	International Code Council - Evaluation Service (ICC-ES) – Krystol Internal Membrane (KIM) was the first chemical concrete admixture certified by ICC-ES, a non-profit U.S. organization that reviews and evaluates building products, materials and methods to ensure they comply with applicable building codes.

A WORLD OF APPLICATIONS



Yunnan Shuima Tunnels - China



Platinum Tower - Beirut, Lebanon



Atlantis Hotel - Dubai, UAE



Marina Bay Sands - Singapore



Aura Pool - Mexico



The Pearl - Qatar, Doha, Qatar



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web: www.sanika.co.za | t: +27 (0)11 425 3061 | e-mail: info@sanika.co.za |

KRYTON CASE STUDY



IMPALA PLATINUM HOLDINGS Ltd Slag Granulation Cooling Tower

CLIENT
Impala Platinum Holdings Ltd

SCOPE
Concrete Waterproofing, Rejuvenation and Crack Repair

SITE
Impala Platinum Mine
Rustenburg, South Africa

PRODUCTS / SYSTEMS USED
Krystol Crack Repair System, Krystol Plug, Krystol T1, Krystol T2, Krystol Bari-Cote



Background

The Impala Platinum slag granulation cooling tower in Rustenburg had several flaws that were causing cracks and severe water leakage. Because of the nature of this process, the reservoir could not be emptied for this repair process as not only would it stagnate their smelting process but it would incur enormous labour and operational costs. Therefore, repairs would have to be to the negative side.

Impala had numerous contractors come and do a test panel on the negative side of the structure to see if their solution would work for this extremely large 6m (20 ft) deep reservoir structure.

Kryton was the only successful product on these test panels, as such, Sanika Waterproofing were awarded the contract to repair and waterproof this structure using Kryton's Crack Repair System.



Solution

Sanika had to remove the unsuccessful membranes and other products from the structure to prepare it for the crack repair and waterproofing process. After preparing the surface Sanika had to act quickly with Krystol Plug as the water penetrating through the cracks was at a temp of over 80 C° (176 F°). After the Krystol Plug successfully stopped the flow of water Sanika employed the rest of the Krystol Crack Repair System followed by a coat of Krystol T1 & T2 to completely waterproof the reservoir.

Impala was pleased with the work and had this to say; "Sanika performed the work in an exemplary fashion, with due respect to all safety, environmental and quality aspects. The work was executed within budget and on time with a very high standard of quality."

Subsequent inspections where conducted by an independent consulting engineer appointed by Impala. The engineers determined that the Kryton solution is long term and of superior quality.

Successfully completed project.



KRYTON CASE STUDY



CLIENT
LIBERTY PROPERTIES (Pty) LTD

SCOPE
Concrete Waterproofing, Rejuvenation and Krystol Crack Repair

SITE
SAB Miller Building
Braamfontein South Africa

PRODUCTS / SYSTEMS USED
Krystol Crack Repair System, Krystol Plug,
Krystol T1, Krystol T2, Krystol Bari-Cote



Background

This heritage building showed many defects in the existing plaster and concrete basement area.

As this site is a heritage site they needed to ensure that they could waterproof the structure without having to remove or damage any of the existing plantation and vegetation. They therefore needed a product that could waterproof the structure from the negative side while still maintaining its integrity.



Solution

The Kryton Crystalline concrete waterproofing technology was the only of its kind that could offer a solution whereby the damaged structure could be waterproofed and rejuvenated from the negative side that was cost effective and would ensure longevity to the structure.



The Kryton Crack repair system was used to complete this job. In order to minimise disruption to the site Sanika worked at night and on weekends ensuring minimal disruption to the tenant SAB Miller and the heritage site.



Successfully completed project.



KRYTON CASE STUDY



GROWTHPOINT Properties Turbine Hall Basement Parking Deck

CLIENT
GROWTHPOINT Properties

SCOPE
Concrete Waterproofing, Rejuvenating
and Krystol Crack Repair

SITE
Turbine Hall,
New-Town Johannesburg

PRODUCTS / SYSTEMS USED
Krystol Crack Repair System, Krystol Plug,
Krystol T1, Krystol T2, Krystol Bari-Cote



Background

Sanika Waterproofing specialists recently completed the Concrete waterproofing of the basement car park at Turbine Hall using Kryton Krystol Technology.

Turbine Hall had been experiencing vast amounts of water ingress through the cracks of the basement car park and was causing extensive damage to the cars below. As such the waterproofing of this basement was to be done quickly, professionally and without too much interruption. Normal waterproofing membranes were not an option as this would mean to remove the paving above the basement car park and would end up being too costly.

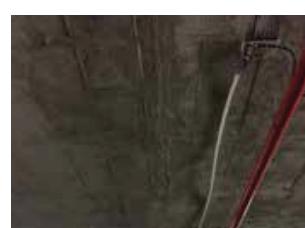


Solution

With Sanika Waterproofing specialists being the approved applicators for Kryton in Southern Africa they were awarded the project to repair the basement car park using the Kryton Krystol Crack Repair System.



As an official heritage site, Turbine Hall offers a unique and exclusive office park for Anglo Gold Ashanti and The Forum Company. A strict working schedule was followed to ensure minimal disruption to the site including weekend and evening work.



Successfully completed project.



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KRYTON CASE STUDY

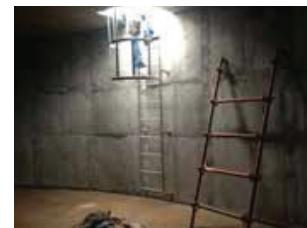


CLIENT
Masetlaoka Scott Wilson pty Ltd

SCOPE
Concrete Waterproofing, Rejuvenating and Crack Repair

SITE
Various Municipalities
Polokwane

PRODUCTS / SYSTEMS USED
Krystol Crack Repair System, Krystol Plug,
Krystol T1, Krystol T2, Krystol Bari-Cote



Background

Sanika were contracted to assist with waterproofing of the poorly constructed reservoirs in the Acornhoek and Bushbuck Ridge areas by Masetlaoka Scott Wilson, whom are the civil, water and consulting engineers for the Department of Water Affairs, South Africa. The newly constructed reservoirs had severe leaks and flaws through the joints, cold joints, tie holes and through the concrete. These reservoirs are a vital water source for the people in this rural area and therefore a complete waterproofing solution was required. Due to the value of water in these areas Masetlaoka Scott Wilson made the informed decision to award Sanika with the contract to perform Kryton's Krystol Crack Repair and T1 and T2 slurry waterproofing systems to render this reservoir completely waterproof.



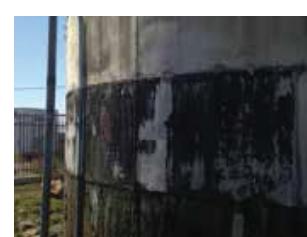
Solution

Due to the inadequate construction of the reservoirs it was determined that a waterproofing solution was required before they were commissioned for use.

Sanika's solution was to use Kryton's Krystol Crack Repair System, consisting of Krystol T1 and T2 as well as Krystol Bari-Cote, on the cold joints and tie holes where water penetration was evident from the flood tests.

The Reservoir has now been commissioned for use with no leaks and is supplying our most precious resource "water" to this rural area.

Successfully completed project.



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