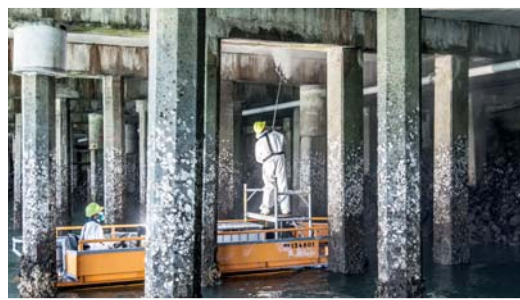


AQUARON 7000

ULTIMATE CONCRETE PROTECTION

SPRAY APPLIED TREATMENT FOR
DURABILITY ENHANCEMENT
OF NEW & EXISTING
CONCRETE



15 YEAR GUARANTEE

EXTENDING
LONG TERM SERVICE LIFE
OF NEW & EXISTING STRUCTURES

PROVEN WORLDWIDE SINCE 1984

AQURON 7000

ULTIMATE CONCRETE PROTECTION



AQURON 7000 is applied on to water blasted clean concrete.

EXTENDING LONG TERM SERVICE LIFE OF NEW & EXISTING STRUCTURES

WHY USE AQURON 7000 ULTIMATE CONCRETE PROTECTION?

AQURON 7000™ System is a spray applied, non-toxic, 100% VOC Free, environmentally friendly and economical treatment for protecting reinforced concrete against corrosion and deterioration.

AQURON 7000™ arrests Steel corrosion, carbonation, ALKALI REACTIVITY (AAR-ASR) and Delayed ETTRINGITE Formation (DEF).



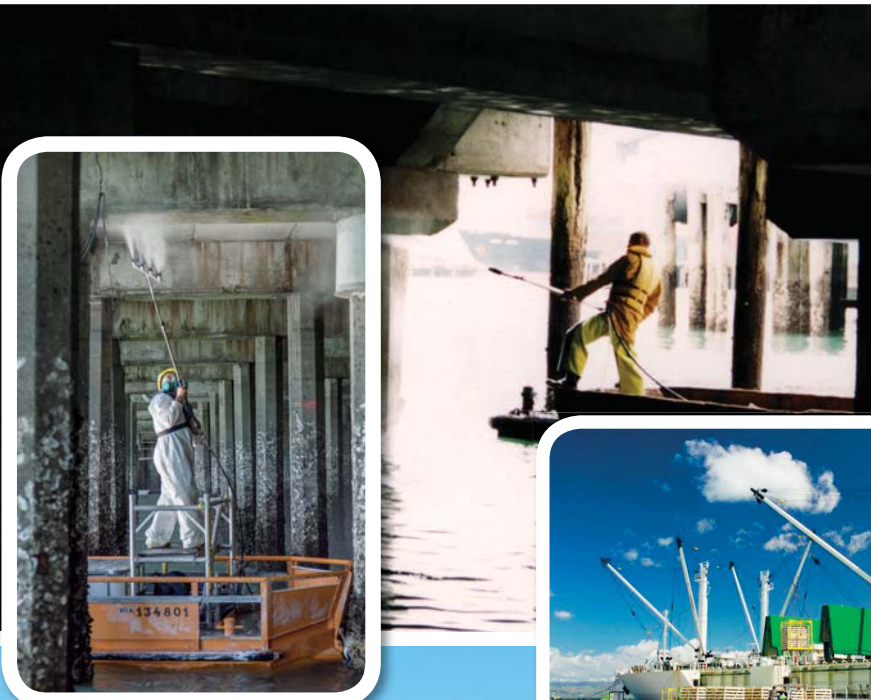
PROVEN: Performing for over 25 YEARS

There is now a 25 year history of projects, proving AQURON's long-term performance to waterproof concrete, preventing and arresting corrosion of embedded reinforcing steel. AQURON has an impressive record on major structures of extending the economic service life. AQURON is **ultimate concrete protection** to an increasing number of existing concrete structures worldwide.

The development of AQURON branded products was directed by AQURON CORPORATION President Ken Solomon utilising his chemistry background and extensive experience in developing both penetrating and waterproofing products and processes. Ken Solomon realised the need for a permanent waterproofing product able to protect embedded steel

from rusting, especially where aggressive de-icing salt brines or saltwater could penetrate into exposed or surface coated concrete. AQURON R&D developed a unique catalyst technology, which induces colloidal silicates to deeply penetrate and react with alkaline components of the concrete, to transform free moisture into an immobilized hydro gel state effectively blocking the permeable porosities and voids of the concrete.

From 1984, AQURON branded products were applied as part of Ken Solomon's contract waterproofing business. With the success of the AQURON BRAND technology on these projects, AQURON Corporation was incorporated on 19 January 1993, to solely focus on promoting these products throughout the USA and other parts of the world.



HISTORIC STRUCTURE

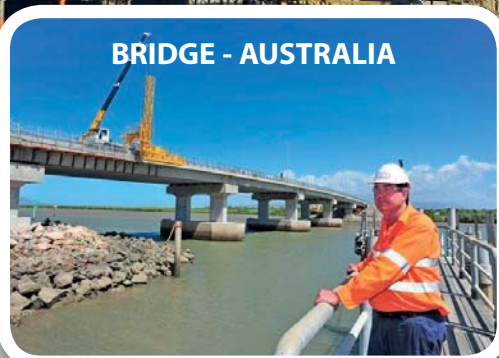
DID YOU KNOW

"Where moisture is unable to migrate into or within concrete, the common factor for deterioration is eliminated"

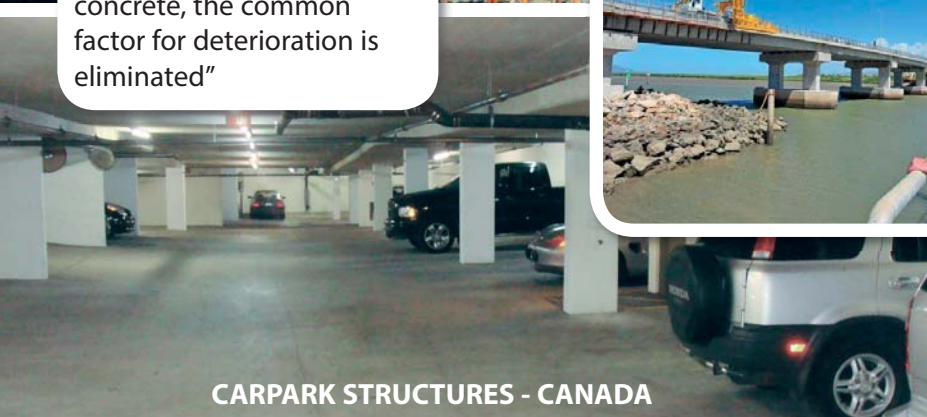


BRIDGE - AUSTRALIA

COMPATIBLE
Any concrete repair or coating, formulated to be applied to untreated concrete is compatible with AQURON concrete.



WHARF - NEW ZEALAND



CARPARK STRUCTURES - CANADA

3 reasons why AQURON is ultimate protection

1

PENETRATES into CONCRETE

AQURON's unique catalyst causes AQURON 7000 System to consistently **PENETRATE** into both new and aged existing concrete, providing the surface is clean and any previous coatings are removed. AQURON 7000 System projects have been core sampled and tested "before and after" treatment and proved that the AQURON's reaction has PENETRATED beyond 200mm from the surface to which the treatment was applied. The unique catalyst causes the reaction of the AQURON solutions to penetrate deeply into concrete whether applied from above or below. AQURON's reliable penetration through the concrete is a distinctive feature of the treatment's track record of arresting corrosion of reinforcing steel.

2

IMMOBILIZES OR PURGES CHLORIDES

AQURON 7000 Treatment immobilizes or purges **existing** chlorides within concrete that aggravate corrosion. Chlorides are attracted into the AQURON hydrogel and are bound, immobilized or purged. As a result there is no electrolyte available to assist the corrosion process. Independent laboratory analysis of core samples taken "before & after" AQURON 7000 Treatment have shown chlorides within the concrete have been reduced from above 0.5kg/m3 to less than the recognised threshold for chloride induced corrosion.

3

PROTECTS INTERNALLY

AQURON 7000 System protects reinforced concrete wharves, bridges, marine concrete, floor slabs, roofing, basements, tanks, decks, soffits, that are washed by seawater, exposed to coastal spray, or that have been attacked by de-icing salt brines, acids, effluents, and corrosive gases. The corrosion inhibitor component of the AQURON 7000 Solution enhances resistance to corrosion of the embedded steel.



SUPPLY & APPLY

A unique approach which protects everyone. **AQURON 7000 SYSTEM** is only available for projects on a controlled **SUPPLY & APPLY** contract basis. **AQURON 7000 SUPPLY & APPLY** procedures strictly comply with **AQURON CORPORATION** requirements which provide and accommodate for variations in concrete. **AQURON 7000 SUPPLY & APPLY** means that you get the required results and a meaningful 15 year warranty with the backing of a quality performance supervised installation, overseen by AQURON representatives and carried out by AQURON contracted, trained, and qualified applicators.

SAFER TO USE

AQURON 7000 is water borne and 100% VOC free, making this a more environmentally friendly and safer to use choice.



15 YEAR GUARANTEE

WHO is MARKHAM GLOBAL?



Markham Global have offices and representation in Australia, New Zealand and UK. Markham Global have specialized in AQURON Solutions since 1996 and have protected and extended the service life of millions of square metres of concrete.

We offer these STEPS to PROTECT YOUR CONCRETE STRUCTURE

1 EVALUATION

2 REPORTING

3 COSTINGS

4 APPLICATION

5 QUALITY
CONTROLLED
& WARRANTY

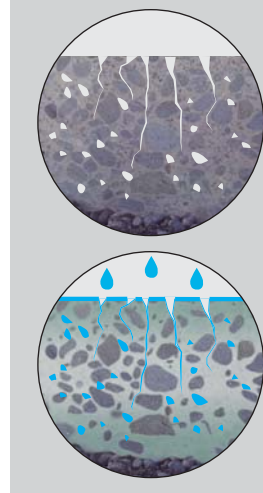
6 LONG-TERM
MONITORING

15 reasons why you should use AQURON 7000 SYSTEM for your reinforced concrete structure:

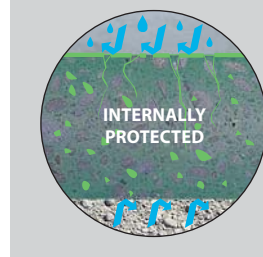
AQURON 7000 System is a 2-step spray applied penetrating corrosion protection treatment that transforms free MOISTURE to be part of the extensive AQURON induced HYDROGEL formation throughout the concrete matrix. AQURON 7000 System offers the following benefits to concrete:

- 1 Eliminates moisture migration - *the transport system for corrosion***
Waterproofs all types of concrete structures.
- 2 Development of AAR-ASR, DEF & Sulphate Expansions *are arrested***
Free moisture and alkalines are bound within the Aquor hydrogel, starving Alkali Reactivity (AAR&ASR), Delayed Ettringite Formation (DEF) & Sulphate expansion that develop & damage reinforced concrete structures.
- 3 Increases Resistivity of concrete - *decreases galvanic activities***
AQURON's hydrogel state has virtually no conductivity & cannot support galvanic activities = HIGH RESISTIVITY.
- 4 Limits the availability of Oxygen - *which is the fuel of corrosion***
Oxygen from the atmosphere is deprived access to the concrete interior, and hydroxides within the concrete are compounded in the gel formation and no longer chemically release Oxygen to any corrosion process. Arrest the supply of Oxygen = Halt corrosion and incipient Anode development.
- 5 Binds and purges existing chlorides - *that aggravate corrosion***
Chlorides are attracted into the AQURON hydrogel and are bound and or repositioned/purged. As a result there is no electrolyte available to assist the corrosion process.
- 6 Chloride ingress is prevented - *long-term protection***
Chloride ingress in new concrete is prevented by AQURON hydrogel & further ingress into existing concrete is eliminated.
- 7 Increases Steel Surface Passivation - *adding resistance to corrosion***
Steel Surface passivation is increased by the corrosion inhibitor component of the AQURON 7000 Treatment which consistently penetrates through the concrete to arrest corrosion of embedded reinforcing steel. Protects embedded steel in new concrete and arrests corrosion of existing deteriorated reinforced concrete structures.
- 8 Enhances Concrete Strength - *enhances hydration***
AQURON'S hydrogel ensures new concrete completely hydrates, and reignites the hydration process of any unreacted cement in aged existing structures.
- 9 Overcomes Incipient Anode Formation - *preventing costly remedials***
Incipient Anode Formation is dependent on free moisture, oxygen availability and conductivity within the concrete. AQURON TREATMENT eliminates these factors.
- 10 Prevents Carbonation - *protects the concrete surface***
AQURON's hydrogel eliminates the damage from gases such as carbon dioxide which dissolve to form corrosive acidic conditions within the concrete matrix.
- 11 Waterborne solution and 100% VOC Free - *AQURON is a more environmentally friendly option for protecting concrete structures, compared to solvent based products.***
- 12 Proven - *25 Year Track Record***
Long-term proven to provide protection on Wharves, Seawalls, Bridges and structures exposed to chlorides from seawater and sea spray. AQURON has proven to efficiently protect car park structures against De-icing Salt brines which are much more concentrated than seawater.
- 13 Extends durability of reinforced concrete structures - *unique answer to protect concrete assets***
Extends the durability and service life of concrete structures
Cost effectively protects reinforced concrete structures and reduces long-term maintenance costs.
- 14 Achieves economic savings - *adds life value to high cost concrete assets***
AQURON is a maintenance cost which ideally is applied before remedials become essential. Net present value (NPV) Projections comparing AQURON vs repetitive remedials show significant cost/benefits of the early expenditure of applying AQURON 7000 System.
- 15 Warranted performance - *projects on a performance supervised supply and apply contract basis***

UNTREATED = UNPROTECTED



AQURON = PROTECTED



MARKHAM
adding life to concrete

AUSTRALIA	www.markhamglobal.com.au	1800 693 694
NEW ZEALAND	www.markhamglobal.com	0800 693 694
UNITED KINGDOM	www.markhamglobal.co.uk	03334 56 57 58

