

AQUARON 2000™

ULTIMATE CONCRETE WATERPROOFING

SPRAY APPLIED TREATMENT FOR
PERMANENT WATERPROOFING
OF NEW & EXISTING
CONCRETE

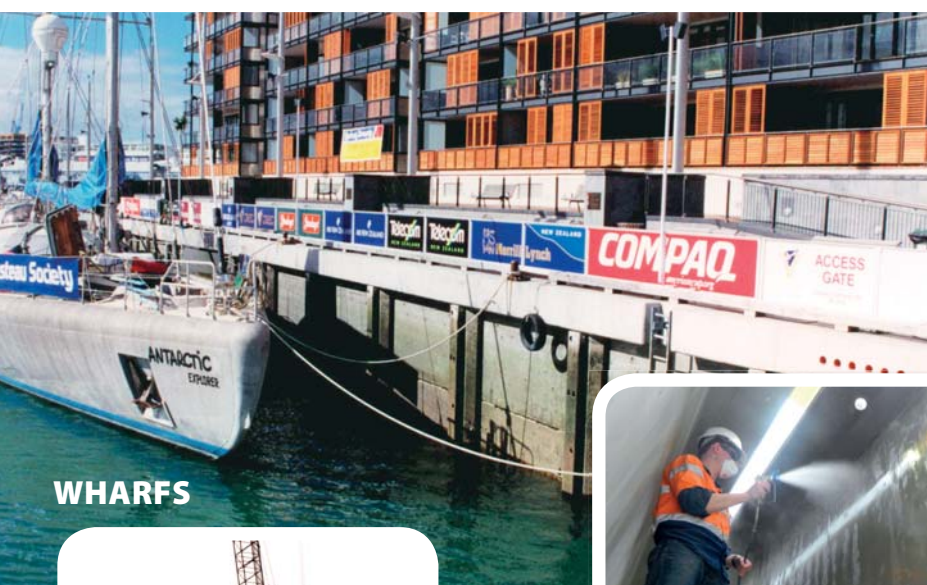


15 YEAR GUARANTEE
FOR WATERPROOFING
& DURABILITY ENHANCEMENT
FOR NEW AND EXISTING CONCRETE

PROVEN WORLDWIDE SINCE 1984

AQURON 2000™

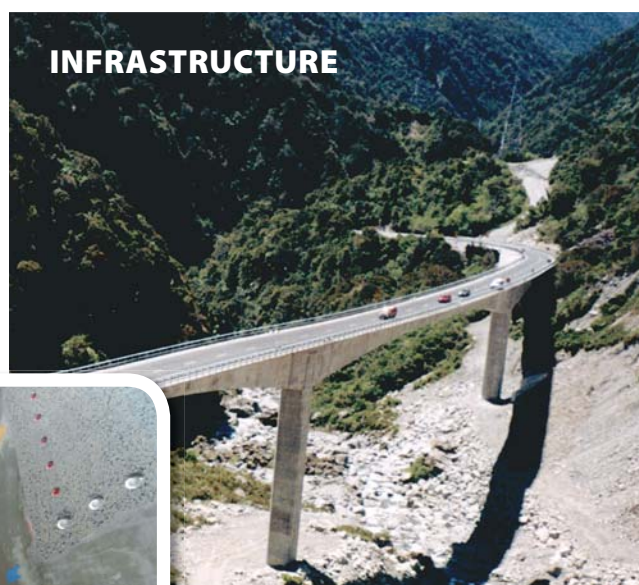
ULTIMATE CONCRETE WATERPROOFING



WHARFS



MULTI-DECK CAR PARKS



INFRASTRUCTURE



PROCESSING PLANTS



STORAGE TANKS



BASEMENTS



WHY USE AQURON 2000 ULTIMATE WATERPROOFING?

AQURON 2000 is the ultimate waterproofing by **internally sealing concrete** to extend durability of concrete structures. AQURON 2000 is the **safer choice** being waterborne and 100% VOC free, and is the benchmark offering the ultimate

guarantee of any spray applied waterproofing system.

AQURON 2000 offers ultimate **internal curing, hardening and anti-dusting, and waterproofing in one application.**

WHERE CAN I USE AQURON 2000?

AQURON 2000 can be applied to any **new and existing** concrete to stop moisture migration, ingress of contamination and harmful gases. AQURON 2000 is a spray applied non-toxic, colloidal silicate with a unique reactive catalyst that results in the treatment penetrating up to 150mm into concrete. Once applied to concrete, AQURON 2000 induces a distinct chemical reaction, converting the alkalinity and moisture into a permanent hydrogel throughout the concrete transforming "free moisture". AQURON's Hydrogel is insoluble, permanent and its sealing action is far superior to that of silicone based products which merely line the porosities with water repellent silicones

AQURON 2000's hydrogel formation improves concrete curing and effectively

reduces shrinkage, risk of cracking, surface crazing, delamination & slab curl. Curing, durability enhancement and permanent internal waterproofing is provided in one application when AQURON 2000 is applied to freshly poured concrete.

AQURON 2000 also maximises flexural & compressive strengths and provides hardening & anti-dusting without compromising the surface key required for further coatings or coverings.

AQURON 2000 protects the internal reinforcing steel from chloride & sulphate attack and provides hardening & anti-dusting properties for exposed surfaces which makes it an excellent treatment for basements and multi-deck car parks where line marking paints have to be applied to a sound, film free surface.

ULTIMATE **4 in 1** with AQURON 2000 offers multiple benefits for new and existing concrete

1

INTERNAL CURING

(equal to water curing) by internal moisture control, reducing risks of shrinkage & slabcurl, laitance, cracking, surface crazing and delamination. These common problems are overcome, because moisture is transformed into a hydrogel in the concrete, resulting in maximised hydration. AQURON complies to moisture retention requirements of ASTM C309.

2

IMPROVED HARDENING

Transforming moisture into a hydrogel ensures cement particles to completely hydrate, resulting chemical reactions being maximized - increasing strength. Instead of only hardening the top surface, AQURON 2000 works throughout the concrete hardening both the internal matrix and surface as one, improving long term durability. Both the hardened concrete and the surface provide greater resistance to abrasion.

3

ANTI-DUSTING

By forming a Hydrogel throughout the concrete, AQURON 2000 stops the access of Carbon Dioxide, which causes concrete dusting. This protection eliminates the issue of dusting concrete affecting adhesion of coatings and coverings, and the harm it can cause to electronics and people's health.

4

WATERPROOFING

AQURON 2000 penetrates deeply into concrete and forms a HYDROGEL throughout the concrete's porosity, resulting in permanent internal waterproofing with a ULTIMATE 15 year Guarantee.



Proven to be equal to WATER CURING

AQURON 2000 INTERNAL CURING has been proven to be at least equal to water/polythene curing. Eliminating the cost and hassle of water curing and allows quicker access to the surface.

AQURON 2000 provides even hydration throughout the concrete matrix, maximising flexural & compressive strengths and significantly reducing shrinkage & slab curl. Crazing and delamination risks of the surface are also reduced by AQURON 2000 curing.

AQURON 2000 is the most cost effective method of controlling moisture beneath floor coverings/coatings with the extra benefit of improved concrete.

AQURON 2000 does not need to be removed prior to flooring installation, like traditional curing compounds.

AQURON 2000 tested on concrete according to ASTM C309 CURING STANDARD, complies for moisture retention.

SAFER TO USE

AQURON 2000 is water borne and 100% VOC free, making this a more environmentally friendly and safer to use choice.

15 YEAR GUARANTEE

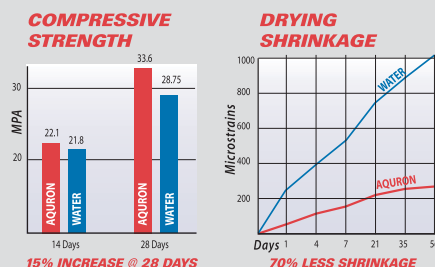
*Providing AQURON Corporation 5 rules and 8 precautions are followed.

AQURON 2000™

ULTIMATE CONCRETE WATERPROOFING



CURING TESTS Aquoron vs Water Curing



Results of testing carried out by an Australian university show that AQURON 2000 curing significantly increases compressive strength and decreases drying shrinkage when compared with water cured control samples.

APPLY AS INTERNAL CURE & SEAL TO GET ULTIMATE WATERPROOFING

AQURON 2000 is being widely specified as a CURE & SEAL for many types of concrete structures such as: basements, concrete tanks, bridges, wharfs, roof decks, multi-level car parks and commercial floor slabs where moisture sensitive floor coverings or coatings need to be installed on a film free, moisture proofed surface.

AQURON 2000 spray applied treatment provides curing for fresh pours of concrete by reacting with all internal free moisture and holding it in a gel formation. AQURON 2000 complies to moisture retention requirements of ASTM C309. AQURON 2000 curing reduces shrinkage cracking & slab curl and maximises flexural & compressive strengths to an even greater degree than water curing plus the many principle benefits such as water/vapour proofing are gained at the same time. This means that time consuming and costly processes such as curing compound removal and separate moisture proofing and surface hardening are eliminated.

This unique method of retaining moisture which is imperative for curing not only maximises hydration and strength, but also reduces shrinkage and slab curl due to the homogeneous formation of a calcium silicate hydrogel throughout the matrix. AQURON 2000 is VOC free, non toxic and environmentally friendly which means that no special precautions need to be taken on construction sites during application.

The use of AQURON 2000 as a CURE & SEAL for fresh pours of concrete contributes to significant time and cost savings for new construction because many important benefits are provided by one application.

AQURON 2000 is preferred for new construction because it's non hazardous nature eliminates special site precautions and it's maintenance free character lowers the environmental impact of buildings in the long term.



APPLY TO EXISTING CONCRETE FOR ULTIMATE WATERPROOFING

The spray applied AQURON 2000 has the unique ability to penetrate existing concrete to depths of more than 150mm and react with alkaline components to form an extensive calcium silicate hydrogel throughout the matrix. AQURON 2000 successfully stops leaks in multi-level car park decks, water tanks and below ground basement floors. AQURON 2000 has eliminated water seepage from dam and reservoir walls in the face of severe hydrostatic pressure.

AQURON 2000 hydrogel action also displaces or purges the mobile contamination of deep-seated oils in the concrete matrix to the surface. AQURON 2000 can be seen here purging oil from an existing concrete.

AQURON 2000 stops vapour and gas transmission through concrete, and has been utilised to help overcome "sick building syndrome".

AQURON 2000 adds significant durability enhancement and longevity to existing concrete by sealing the matrix internally to prevent further ingress and migration of debilitating liquids and vapour.

CASE STUDY:

"AQURON 2000 was applied to the internal walls in the Electric House of this 80 year old Hydro Electric facility to stop hydrostatic seepage".



Ultimate range of concrete treatments

AQURON 1000 | 3 in 1

INTERNAL CURING
HARDENING
ANTI-DUSTING

AQURON 2000 | 4 in 1

INTERNAL CURING
HARDENING
ANTI-DUSTING
WATERPROOFING

AQURON 7000 SYSTEM

WATERPROOFING
CORROSION PROTECTION

AQURON SPRAY ON CONCRETE TREATMENTS - Over 100,000,000 square metres applied worldwide



MARKHAM
adding life to concrete

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