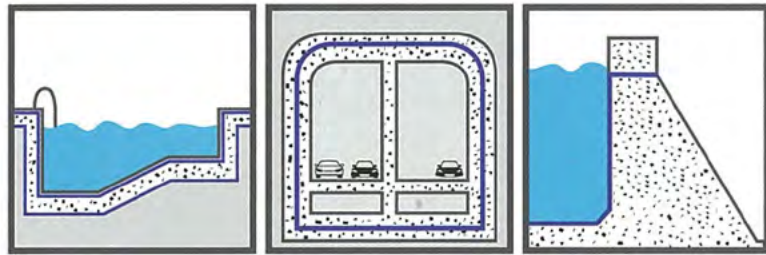


# CWS ADMIX

## WHY USE IT?

CONCRETE, WHEN DESIGNED, MIXED AND PLACED IN ACCORDANCE WITH TODAY'S EXACTING STANDARDS, IS THE WORLD'S MOST VERSATILE CONSTRUCTION MATERIAL, POSSESSING EXCELLENT PROPERTIES OF PERFORMANCE AND DURABILITY.

In practice however, concrete is exposed to variables during production and placing that can combine with typical design and production practices to increase the permeability of concrete in its hardened state.



The performance, durability and porosity of concrete is directly affected by the care and quality taken in its mixing and use in the first six hours.

Despite the many precautions typically employed in this period, the vast majority of concrete structures are still subject to water penetration, usually as a result of one or more commonly encountered factors:

- High water/cement ratio;
- Poor compaction;
- Deformed I badly installed water bar;
- Inadequate curing;
- Shrinkage cracks;
- Settlement or heave.

It is not necessary for the structure to leak to still be at risk from water penetration. Deterioration of a structure is rapid when reinforcing steel is exposed to the environment.

**WHEN ADDED TO FRESH CONCRETE AS AN ADMIXTURE, CWS ADMIX DISPERSES ITS CRISTALLINE ACTION THROUGHOUT THE CONCRETE.**

## HOW IT WORKS?

### VERSATILE

**CWS ADMIX** is a crystalline reactive waterproofing compound applied as an admixture in fresh concrete.

**CWS ADMIX** is composed of a blend of moisture activated chemicals, high grade fine aggregates and selected high performance cements.

### SIMPLE

When mixed with water and applied to the surface or added to fresh concrete as an admixture a crystalline chain reaction develops which penetrates deep into the capillary structure of the concrete and into fissures and cracks.

**CWS ADMIX** is effective on all cement systems. The existing moisture and free lime held within the substrate is utilized by chemical reaction to create a continuous barrier of insoluble crystals, driving away moisture and ensuring a permanent watertight concrete.

**CWS ADMIX** will, however, allow the transmission of air and water vapor through the concrete, thus allowing it to "breathe" whilst remaining waterproof.

The chemical reaction which **CWS ADMIX** utilizes will be reactivated without further treatments. Should water penetrate the concrete, the dormant crystallized chemicals reactivate on contact with moisture and will effectively reseal the concrete.

In this manner **CWS ADMIX** offers the security of latent, built-in protection.

### LONG TERM

**CWS ADMIX** maximises a combination of complex chemical reactions together with a simple, straight-forward application technique.

The system effectively blocks the passage of water in concrete by filling the capillaries and micropores of crystalline developments.

## WHERE TO USE IT?

**CWS ADMIX** is the ideal concrete waterproofing system when you want to contain water or exclude water in either new build projects or existing structures.

**CWS ADMIX** has a wide use including:

- Concrete Basements;
- Water tanks and towers;
- Reservoirs;
- Swimming pools;
- Water treatment works;
- Dams;
- Canals;
- Harbors;
- Concrete pipes;
- Lift pits.



## WHEN AND HOW?

**CWS ADMIX** should be applied at the initial construction stage whenever possible.

**CWS ADMIX** should be added to fresh concrete at time of mixing, as an admixture, ensuring the product's unique waterproofing properties are immediately active throughout the freshly cast concrete.

**DOSAGE**  
**0.8**  
kg / m<sup>3</sup>



At the Concrete  
Batching Plant  
or Truck.

## 10 REASONS TO USE CWS ADMIX

- CWS ADMIX** provides lifelong integral waterproofing which cannot be torn, punctured, delaminated or worn away.
- CWS ADMIX** provides immediate protection to the concrete without having to wait for the 28 days curing period, thereby eliminating costly delays on site.
- CWS ADMIX** provides dormant waterproofing protection for the concrete the chemical reaction will reactivate years after application if moisture penetrates the concrete.
- CWS ADMIX** will protect the steel reinforcement from corrosion by raising the pH of the concrete thereby passivating the steel.
- CWS ADMIX** is equally effective against NEGATIVE and POSITIVE water pressure.
- CWS ADMIX** will allow water vapor diffusion, allowing the concrete to "breathe" whilst remaining waterproof.
- CWS ADMIX** is seamless, jointless, nontoxic and selfhealing.
- CWS ADMIX** works by chemical reaction and is not dependent upon adhesion, thickness of coating or multiple layers for its waterproofing properties.
- CWS ADMIX** can be applied to damp surfaces and "green" concrete - it acts faster with the increased presence of water.
- CWS ADMIX** can effectively replace water bar in static construction joints.





*Waterproof Concrete. For Life.*

**AUSTRALIA**

P.O. Box 389,  
Northbridge NSW 1560  
Australia

**PHONE:** +612 9967 5534

**EMAIL:** [info@cwswaterproofing.com](mailto:info@cwswaterproofing.com)

**PHILIPPINES**

Unit 1104 Miguel Ave Cor Shaw Blvd.  
Ortigas Center, Pasig City 1605

**MOBILE:** 0917 823 7091

**PHONE:** +632 7904 7632

**EMAIL:** [manilla@cwswaterproofing.com](mailto:manilla@cwswaterproofing.com)

[www.cwswaterproofing.com](http://www.cwswaterproofing.com)



AUSTRALIA • PHILIPPINES • GREECE • USA • BRAZIL



# CWS ADMIX

**waterproofing  
concrete  
for life**

