

## XYPEX IS RECOMMENDED FOR:



- Basement/Substructures
- Bridge/Road Structures
- Chemical Protection
- Dams/Spillways/Reservoirs
- Durability Enhancement
- Lift Pits
- Manholes
- Marine Structures
- Mining
- Pools
- Power/Hydro
- Roof/Parking Decks
- Sports/Recreational
- Tunnelling
- Water Treatment
- Waste Water Management

## XYPEX ADVANTAGES:



- Resists extreme hydrostatic pressure from either positive or negative surface of the concrete structure
- Becomes an integral part of the substrate
- Highly resistant to aggressive chemicals
- Can seal hairline cracks up to 0.4mm
- Allows concrete to breathe
- Non – toxic
- Less costly to apply than most other methods
- Addresses a wide range of environmental issues, by increasing the life of concrete structures
- Permanently reactive
- Does not require dry weather to be applied
- Increases flexibility in construction scheduling

## WATERSTOP PRODUCTS:



### KUNISEAL C-31 DS

Kuniseal C-31 DS has been developed as an easy-to-use bentonite clay swelling waterstop material designed to prevent the ingress of water through cast in-situ concrete construction joints. The Kuniseal expansion does not exert pressure on the surrounding concrete.



### RAWSEAL RC50

Rawseal RC50 waterstop is generally used in horizontal and vertical concrete 200mm thick or thicker. It is used both as a post applied profile into a rebate or cast into the centre of a pour where greater quantity of hydrophilic material is required than provided. The waterstop contains a retardant which delays the rate of swell of the profile.



### RAWSEAL CJ2025

Rawseal CJ2025 Black Waterstop is a prehydrated vacuum extruded sodium bentonite waterstop designed to prevent the ingress of water through cast in-situ concrete construction joints. The confining concrete can be placed up to 5 days after installation of the waterstop profile.



### RAWSEAL TR35

Rawseal TR35 Black Waterstop is a prehydrated vacuum extruded sodium bentonite waterstop, designed to act as an active reinforcement strip at internal 90 angles and to seal around penetrations. The confining concrete can be placed up to 5 days after installation of the waterstop profile.

## XYPEX AUSTRALIA PROFILE:

Concrete Waterproofing Manufacturing Pty. Ltd. was established in 1991 to manufacture the unique range of Xypex concrete waterproofing and durability products. The company was created under licence to Xypex Chemical Corporation in Canada, for the manufacturing, distribution and marketing of Xypex in the Australasian and South East Asian markets. The Xypex product range consists of high quality products which are typically used for concrete waterproofing, repair and protection and specifically for the durability enhancement of general and high performance concretes.

The product range varies from crystalline growth products through to non-crystalline ancillary products. The primary and most distinguishing performance feature of Xypex is its unique ability to generate a non-soluble crystalline formation deep within the pores and capillary tracts of the concrete - a crystalline structure that permanently seals the concrete against the penetration of water and other liquids from any direction.



# Product Guide

Concrete, by its very nature lies open to the persistent challenges of water, chemicals and a wide variety of harsh environments. Xypex meets these challenges before they become problems by a unique crystallization process which occurs deep within the pores and capillary tracts of the concrete. This crystalline structure permanently seals the concrete against the penetration of water and other liquids from any direction.



**Xypex is a cementitious, dry powder compound containing various proprietary chemicals that take advantage of the inherent porous and chemical characteristics of concrete.**

**These proprietary chemicals react with moisture and the natural chemical by-products of cement hydration to produce a non-soluble crystalline structure that becomes an integral part of the concrete matrix. Pores and capillary tracts are blocked, micro-cracks are sealed, and the concrete becomes impermeable to water and other liquids.**

## WATERPROOFING & DURABILITY PRODUCTS

### XYPEX ADMIX C-1000NF - Waterproofing

Admix C-1000NF is a unique chemical treatment for the waterproofing, protection and improvement of concrete. It is added to the concrete mix at time of batching. Admix C-1000NF has been specially formulated to meet varying project conditions and complies with the requirements of AS 1478.1 as a type SN Special Purpose Admixture.

### XYPEX ADMIX C-5000 - Durability

Admix C-5000 is a unique chemical treatment that has been specially formulated to enhance the durability of reinforced concrete exposed to aggressive conditions. It is recommended for reinforced concrete including pre-cast, pre-stressed, post-tensioned and shotcrete and is applied at time of batching. Admix C-5000 complies with the requirements of AS 1478.1 as a type SN Special Purpose Admixture.

### XYPEX CONCENTRATE DS-1

Concentrate DS-1 is a dry shake formulation of Xypex Concentrate designed specifically for horizontal concrete surfaces such as parking decks and floor slabs. Applied by hand or by mechanical spreader, Concentrate DS-1 is trowelled into fresh concrete prior to finishing.

### XYPEX CONCENTRATE

Xypex Concentrate is the most chemically active of the Xypex waterproofing products. Mixed with water, this light grey powder is applied as a slurry coat to above-grade or below-grade concrete either as a single coat or as the first of a two-coat application. It is also mixed in Dry-Pac form for sealing strips at construction joints, or for the repairing of cracks, construction joints and honeycombed/voided concrete.

### XYPEX MODIFIED

Xypex Modified can be applied as a second coat to reinforce Xypex Concentrate, or by itself to damp-proof the exterior of foundation walls. Applied as a second coat over Concentrate, Modified produces a harder finish and assists the curing of the Concentrate. Where damp-proofing is required, a single coat of Modified may be used as an alternative to a spray/tar emulsion.

## CONCRETE REMEDIAL REPAIR PRODUCTS

### XYPEX RESTORA-TOP

Xypex Restora-Top products are designed specifically for the repair and rehabilitation of horizontal concrete surfaces such as warehouse floors, bridge decks, roads, kerbs, and walkways where the repaired area must be traffic-ready within two to four hours. Restora-Top products consist of specially modified portland cement, aggregates, admixtures and bonding agents combined in controlled proportions to provide excellent adhesion properties, rapid setting and strength gain, reduced shrinkage as well as superior durability.



### XYPEX PATCH'N PLUG

Xypex Patch'n Plug is a specially designed, fast-setting, non-shrink, high-bond-strength, hydraulic cement compound for concrete patching and repair. Patch'n Plug stops flowing water in seconds and is used to seal cracks, tie holes, and other defects in concrete. The high performance characteristics of Patch'n Plug are enhanced by Xypex's unique crystalline waterproofing technology.



### XYPEX MEGAMIX I

Megamix I is a thin parge coat for the waterproofing and resurfacing of vertical masonry or concrete surfaces. Megamix I is also used as a cap coat for Xypex Concentrate or as an architectural rendering.

### XYPEX MEGAMIX II

Megamix II is a high build repair mortar for the patching and resurfacing of concrete, which has been specially formulated to produce superior bond, low shrinkage, chemical durability and high strength.



### XYPEX FCM 40

Xypex FCM 40 is specially designed for repairing cracks subject to movement, sealing construction joints, restoring deteriorated concrete and waterproofing concrete structures. FCM 40 has exceptional adhesive and elongation characteristics and is often used in conjunction with the Xypex Crystalline Concrete Waterproofing and Protection System. FCM 40 is a two component product consisting of a specialized liquid polymer dispersion and a cementitious powder component. These ingredients are mixed prior to application. In situations where damp or porous substrates exist or where increased bond is required, a FCM Primer "slurry coat" is recommended prior to the FCM 40 membrane application.



### M P&P MORTAR

M P&P Mortar is a fast setting, non-shrink mortar for concrete repairs where waterproofing is a requirement. It is used for sealing cracks to stop water flows and other defects in concrete. M P&P Mortar is also used to seal tie-holes.

## ANCILLARY PRODUCTS

### XYPEX GAMMA CURE

Xypex Gamma Cure is a curing agent designed specifically for Xypex crystalline waterproofing products. Gamma Cure may be used as an alternative to water curing for certain Xypex applications. It is also used to accelerate the Xypex Crystallization Process. Xypex Gamma Cure acts as an evaporation retardant by retaining the maximum amount of moisture in the Xypex coating.

### XYPEX XYCRYLIC ADMIX

Xycrylic Admix is a water-based, high solids polymer dispersion specifically designed for fortifying portland cement chemicals. This liquid is milky white in colour and improves curing qualities, enhances bond, imparts excellent water and weather resistance, and reduces shrinkage cracking. Xycrylic Admix is also used to fortify Xypex Patch'n Plug and Megamix I.

### XYPEX QUICK SET

Quick Set is a water soluble liquid blend of silicates, neutralizers and penetrating agents specially compounded to harden, dustproof and seal the surfaces of fresh or newly cured concrete floors.