ARDEX CONCRETE REPAIR
AND COATING RANGE

GIVING YOU PEACE OF MIND WITH A GUARANTEED SYSTEM THAT WORKS
Offering a complete range of products including **self-priming**, **anti-corrosive** patch mortars, a **high-flow** micro concrete, **zinc rich** primer and **façade membrane** coatings. **ARDEX Systems Façade** is your solution to façade restoration.

### REPAIR MORTARS

**ARDEX BR 340**

*MICROTEC® Fibre-Reinforced, Polymer-Modified, Structural Concrete Patching and Repair Mortar*

- Polymer modified & shrinkage compensated
- Medium weight with good adhesion to concrete
- Contains active corrosion inhibitor
- Low resistivity (<15,000Ω cm)
- Used in conjunction with ARDEX BRX 60 LO Low Output Anodes

**ARDEX BR 345**

*MICROTEC® Fibre-Reinforced, High-Resistivity, Polymer-Modified, Structural Concrete Patching and Repair Mortar*

- Polymer modified & shrinkage compensated
- Medium weight with excellent adhesion to concrete
- Contains active corrosion inhibitor
- High resistivity (>15,000Ω cm)
- Approved for use with potable (drinking) water - independent testing confirms conformity with the requirements of AS4020.2005

**ARDEX BR 460 FLOW**

*High-Performance, Flowable, Structural Micro Concrete*

- Shrinkage compensated
- Excellent adhesion to concrete
- High early & final strength
- Contains active corrosion inhibitor
- Low resistivity (<15,000Ω cm)
- Used in conjunction with ARDEX BRX 60 LO Low Output Anodes

### PRIMERS AND ACCESSORIES

**ARDEX WR Prime**

*Performance Enhancing Polymer Primer & Additive*

**ARDEX BRP 30 EP**

*Solvent-free Structural Epoxy Bonding Agent*

**ARDEX BRX 60 LO**

*Sacrificial Zinc Anodes for Cathodic Prevention*

**ARDEX BR 10 ZP**

*Single-part, Zinc-rich Primer*
CONSTRUCTION GROUTS

ARDEX BG90 GP
General-Purpose, High-Strength, Shrinkage-Compensated, Class-A-Type Construction Grout
- High strength
- Versatile - dry pack, pourable and pumpable
- Positive expansion when the grout is in its plastic state
- Shrinkage compensated when the grout is in the hardened state

ARDEX BG140 HP
High-Performance, High-Strength, Shrinkage-Compensated, Class-C-Type Construction Grout
- Superior strength with excellent flow
- Versatile - flowable, trowelable and pumpable
- Positive expansion when the grout is in its plastic and hardened state
- Ideal for precision grouting applications
- Non-hydrogen gas forming

FAÇADE COATINGS

ARDEX WPM310
External Façade And Roof Membrane
- Flexible – accommodates normal building movement
- Provides excellent UV resistance and long term protection from elements
- Excellent workability – easy, quick to apply
- Decorative – choice of colours
- Water based – safe to use, low odour and easy cleaning

ARDEX WPM330
External Anti-Carbonation Facade Membrane
- External anti-carbonation façade membrane
- Semi-permeable membrane – allows wall surface to breathe
- Contains fungi and algae growth inhibitors
- Provides excellent UV resistance and long term protection from elements
- Water based, safe to use, low odour and easy cleaning
- Decorative – choice of colours
RHINO CARBON FIBRE CONCRETE CRACK LOCK™

ULTIMATE VERSATILITY
The Concrete Crack Lock™ is a revolutionary patent-pending product. It was engineered to permanently stop cracks in concrete slabs, poured walls, masonry, concrete block foundations, columns, industrial buildings, bridges, foundations, swimming pools, as well as in preparation for floor coatings. Introducing a revolutionary new concrete repair product designed to make crack reinforcement more efficient and less labour intensive.

COST EFFECTIVE
Less epoxy is used in the installation process as a result of the ultra thin profile. The Concrete Crack Lock™ can be installed in minutes with just a diamond blade and drill. No special tools are required. The reduction in labour also means higher profits for the contractor.

UNPARALLELED STRENGTH
The patent-pending Concrete Crack Lock™ permanently locks both sides of the crack together, preventing any further movement. Due to the shape of the Concrete Crack Lock™, the tensile strength of the carbon fibre is maximised permanently holding both sides of the crack together. The Concrete Crack Lock™ eliminates any potential for corrosion, warranty claims, and reduces callbacks.

FAST INSTALLATION
The Concrete Crack Lock™ is installed by making a single blade saw cut in the concrete across the crack and then drilling two small holes at each end. The cut is then filled with any of the recommended ARDEX RA-Epoxies, and the Concrete Crack Lock™ is inserted. The Concrete Crack Lock™ requires less concrete removal and epoxy than other similar crack repair products, thus saving time on installation.
ARDEX WPM 330

CRITERIA FOR SELECTING A PROTECTIVE COATING

Effective anti-carbonation coating
An effective anti-carbonation coating is a protective membrane that resists the ingress of carbon dioxide while allowing the outward flow of water vapour (i.e. allows the coating to breathe).

Carbon Dioxide Diffusion Resistance, Rc>50m
ARDEX WPM 330 Rc=124m
Rc is the measure of the resistance of a coating to carbon dioxide diffusion. It is expressed in metres and represents the thickness of a layer of air with equivalent resistance. Klopfer’s criterion for protective coatings for concrete is Rc greater than 50m. Coatings such as ARDEX WPM 330 that have a resistance greater than 100m, are considered to be very effective barriers against the infiltration of acid gases (carbon and sulphur dioxide).

By reducing the passage of these gases, protective coatings help maintain the pH of concrete, thereby maintaining the passive environment around the steel and preventing corrosion.

(Independent test conducted Taywood Engineering).

Water Vapour Transmission Sd<4m
ARDEX WPM 330 Sd = 1.1m
In order to prevent blistering, protective coatings must allow excess water in the concrete to escape in the form of vapour as to prevent condensation development internally due to internal/external temperature differentials; external walls must be allowed to breathe to allow this moisture to escape to the atmosphere and not accumulate on internal surfaces.

Therefore, protective coatings allow the passage of water vapour, not resist it. This is reflected in Klopfer’s resistance criterion requiring less than 4 metres. ARDEX WPM 330 with Sd of 1.1m, falls well within this limit.

(Tested by Taywood Engineering to ASTM E96-94, section 12).

Chloride Ion Diffusion Resistant
ARDEX WPM 330 = 7.7 x 10-14 m²/sec
A protective coating must also restrict the ingress of chloride ions. The principle entry into concrete of these ions is through saline solutions e.g. salt spray or underground water.

(Independent test conducted Taywood Engineering).