



AARDCURE CATALYST AARDCURE ECO

A performance-based approach to curing.

A dual-component curing system that combines moisture retention with activated hydration to deliver measurable performance improvements in modern concrete construction.

Beyond Conventional Curing

Conventional curing systems, as defined by AS 3799, are designed to retain moisture — an essential requirement for effective hydration.

However, moisture retention alone does not fully address long-term performance, particularly as modern sustainable concrete mixes incorporate supplementary cementitious materials. These mixes require extended hydration and microstructural development to achieve their full durability potential.

Aardcure Catalyst & Aardcure ECO are specifically designed to address this — combining moisture retention with chemically active curing to:

- Support continued cement hydration
- Refine pore structure to reduce permeability and ingress
- Mitigate early-age microcracking
- Deliver a denser, more durable concrete matrix

The result is controlled, performance - based curing - not just moisture retention.

Engineered as a System

Aardcure Catalyst

A penetrating reactive treatment that uses the internal reserves of cementitious minerals to enhance cement hydration which promotes internal microstructural development — improving density and durability from within.

Aardcure Eco

An alkaline reactive liquified clay curing compound that retains moisture at the surface while supporting continued hydration and protecting the concrete during early-age curing.

Together, the system enables active curing — enhancing both hydration and microstructural development during the critical curing phase.

Key Benefits

- Enhances durability, long-term performance, and overall asset life
- Reduces permeability-related deterioration, early-age defects, and remediation risk
- Delivers consistent curing outcomes and improved surface finish in variable conditions
- Supports modern mix designs
- Easy application and removal

A Performance-Based Approach to Curing

- Combines moisture retention with chemically active curing
- Designed to support modern mix designs requiring maximised hydration
- Delivers measurable performance improvements beyond standard curing methods
- Supported by laboratory testing and comparative performance data
- Enables more reliable, specification-conforming concrete outcomes

Performance Advantages

Test Method	Result
Compressive Strength (28 day) (AS 1012.9)	Equivalent to Aardcure WHC (AS 3799 compliant) ~7% increase in compressive strength vs Untreated Control
Compressive Strength (7 day) (AS 1012.9)	~ 10% increase early strength (7 days) vs Aardcure WHC (AS 3799 compliant)
Water Absorption (Sorptivity) ASTM C1585-20	~20% reduction vs Untreated Control ~17% reduction vs Aardcure WHC (AS 3799 compliant)

Testing demonstrated equivalent compressive strength and reduction of permeability, restricting the ingress of moisture and contaminants.

Designed for Modern Concrete

This system is highly effective for standard and evolving sustainable mix designs including:

- Mixes incorporating slag, fly ash and supplementary cementitious materials, where enhanced hydration is critical to achieving full strength and durability
- Infrastructure and high-performance applications
- Projects requiring enhanced durability and lifecycle performance



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