



Proven since 1985

# AQURON® 2000 Cure and Seal™

## Cure and Seal

### MANUFACTURER

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### PRODUCT DESCRIPTION

**AQURON®** 2000 Cure and Seal™ offers a proven solution to water migration in concrete. It is an effective treatment that is aqueous-borne, penetrating sub-surface densifying, and molecular bonding.

### BASIC USE

**AQURON®** 2000 Cure and Seal™ is a permanent, clear treatment/preservative/sealant solution for new or existing pneumatically applied or cast in place concrete. **AQURON®** 2000 Cure and Seal™ will reduce permeability and help protect embedded steel. Pigment can be added for reflectance and marking if specified.

**AQURON®** 2000 Cure and Seal™ has a highly reactive catalytic agent that reacts with the free alkali and or alkaline hydrates to internally produce a silica hydro-gel that fills the pore spaces and voids around aggregate. Furthermore, alkali is converted to a neutral compound structure, reducing the potential for internal chemical reactions. More density is added along with bonding strength.

**AQURON®** 2000 Cure and Seal™ is an ideal product for concrete or other masonry surfaces that are to be painted or coated since it enhances the bonding quality of the surface. **AQURON®** 2000 Cure and Seal™ reduces peeling, cracking and loss of bond caused by capillary moisture or internal chemical reactions.

**AQURON®** 2000 Cure and Seal™ will not alter the appearance of the surface or physical characteristics and will enhance surface traction quality making it ideal for use on all new or existing concrete installations including bridges, decks, streets, airport runways, basements, parking garages, decks, sidewalks, driveways, slabs, etc.

The use of **AQURON®** 2000 Cure and Seal™ will diminish the effects of freeze-thaw cycles. **AQURON®** 2000 Cure and Seal™ neutralizes existing internal corrosives such as acids and chlorides preventing internal chemical reactions. Also, **AQURON®** 2000 Cure and Seal™ significantly slows the rusting or corroding of embedded steel.

### BENEFITS

- Permanently, integrally seals concrete
- Allows necessary vapor transmission as needed for curing
- Preserves matrix integrity
- Increases surface abrasion resistance
- Excellent pre-treatment for coating systems
- Adds density
- Significant resistance to salt/chloride ion intrusion
- Increases strength
- Improves post carbonation effects
- Zero VOC/VOS content
- Reduces internal water migration
- Makes ice removal/cleaning easier
- Improves acid/chemical resistance
- Lowers internal chemical reaction potential
- Lowers creep potential
- Lowers electrostatic discharge potential
- Significantly enhances the cure

### APPLICABLE STANDARDS

**AQURON®** 2000 Cure and Seal™ meets or exceeds applicable standards.

- ASTM C67 Section 10 Efflorescence
- ASTM C666 Freeze-thaw resistance
- ASTM C23-89 Artificial weathering
- AASHTO T260-89 Chloride ion content
- AASHTO T259-89 Chloride Ion penetration
- ASTM D-56-91 Flash Point (none)
- ASTM C309-91 Type 2, Class A, Curing compound
- ASTM D-1644-91 Non Volatile
- ASTM 97-91 White Pigmentation-reflectance
- ASTM D-5084-91 Permeability
- USDA approved for use in food processing areas
- EPA Compliant

### COMPOSITION

**AQURON®** 2000 Cure and Seal™ has a highly reactive catalytic agent in a waterborne proprietary colloidal silica base that produces a silica hydro-gel below the surface inside the concrete matrix.

### PRECAUTIONS

- Cover all GLASS. **AQURON®** 2000 Cure and Seal™ will etch glass.
- Cover everything not intended for product. Incidental damage may occur on unintended surfaces.
- Spills or spray droplets in contact with glass should be removed immediately by flushing with water.
- Some discoloration of aluminum can occur.
- Do not proceed with application of **AQURON®** 2000 Cure and Seal™ when ambient temperature and/or substrate temperatures are less than 40°F/4.5°C or fore casted to drop below 40°F/4.5°C during the next 6 hours.

### PHYSICAL PROPERTIES

Physical	Liquid
Color	Clear - pigment can be added
Odor	None
Specific gravity	1.11±
Flash point	None
pH	12±
Toxicity	None
Boiling point	212°F/100°C
Freeze temperature	32°F/0°C
Hazardous vapors	None
Weight per gallon	9.18lbs/4.16kg
Environmental impact	Neutral
User-friendly	Yes
Shelf life	Indefinite
Freeze harm	None (allow to thaw completely)

## PHYSICAL PROPERTIES CONTINUED

Surface bond quality	Excellent
Flammability	None
VOC/VOS content	None
Resistance to UV	Excellent
Paintable	Yes
Pollutants	None
Waste disposal	Non-hazardous
Solids after applied	Excellent
Coverage	200-250 sq. ft. per US gallon/4.92m <sup>2</sup> -6.15m <sup>2</sup> per liter

## INSTALLATION JOB CONDITONS

- Low Temperatures:** Do not proceed with application of **AQURON**<sup>®</sup> 2000 Cure and Seal™ when ambient temperature and/or substrate temperatures are less than 40°F/4.5°C or fore-casted to drop below 40°F/4.5°C during the next 6 hours. Use temp gun verify.
- High Temperatures:** Should ambient or substrate temperature be 95°F or higher, cool surface with sufficient water so that the surface stays damp. Disperse puddled water. Use temp gun to verify.
- Wind:** Caution should be taken in windy conditions. Do not allow product to contact surfaces not intended for **AQURON**<sup>®</sup> 2000 Cure and Seal™ application.
- Dry:** If allowed to dry, **AQURON**<sup>®</sup> 2000 Cure and Seal™ can etch glass or dull shiny aluminum. If contact is made with glass or aluminum, rinse surface immediately with water before **AQURON**<sup>®</sup> 2000 Cure and Seal™ dries on surface.
- Penetration:** The surface can be damp, but there should be no standing water. Anything preventing penetration must be removed.
- Strength:** Do not dilute. Use as supplied.
- Applying impervious coatings, coverings, etc:** Once **AQURON**<sup>®</sup> 2000 Cure and Seal™ is applied, **wait 28 days on new concrete and wait 72 hours on existing concrete** before applying impervious coatings, coverings, etc.
- Fractures:** **AQURON**<sup>®</sup> 2000 Cure and Seal™ only seals the concrete itself, not fractures.

## APPLICATION PROCEDURE

- Apply **AQURON**<sup>®</sup> 2000 Cure and Seal™ to concrete surface with a low pressure garden type sprayer with a fan spray tip (do not apply with brush or roller). If applied 6 days or more after concrete has been placed, use an airless sprayer at about 2000 psi and a 513 tip.
- Start application as soon as concrete has reached initial set or as soon as can be walked on without imprinting surface.
- AQURON**<sup>®</sup> 2000 Cure and Seal™ should be applied at a rate of approx. 200-250 sq. ft per gallon. Normally to achieve this rate of application of, **AQURON**<sup>®</sup> 2000 Cure and Seal™, two applications will be needed. Apply first application covering area in one direction, then apply second application once first has penetrated surface, (normally 5-10 minutes, do not allow to dry), in a direction 90 degrees to the first, in result forming an even coverage with this cross hatch type pattern. Should the surface be dense steel troweled, use an airless sprayer and treat the concrete at 200-250 sq. ft. per gallon using a 513 tip.

- If **AQURON**<sup>®</sup> 2000 Cure and Seal™ white pigmentation is being utilized, product should be continually agitated to maintain pigment in solution.
- Start application holding spray tip approximately 8"-10"/200mm-254mm from concrete surface, make application using overlapping spray pattern with a fanning motion at the end of each pass.
- Entire area being treated is to be saturated, but do not allow **AQURON**<sup>®</sup> 2000 Cure and Seal™ to puddle. IF so disperse puddled area with a broom or hose with water if applicable 5-10 minutes after application is completed. (Do not allow puddles of **AQURON**<sup>®</sup> 2000 Cure and Seal™ to dry.) Once forms are removed, treat exposed concrete. If temps are 80°F or above, disperse in 2-5 minutes.
- When **ambient or substrate** temperatures are extremely hot (95°F or above), the surface to which **AQURON**<sup>®</sup> 2000 Cure and Seal™ is to be applied may need to be cooled with water prior to and after application. Surface cooling operation should only commence after surface sheen of **AQURON**<sup>®</sup> 2000 Cure and Seal™ application has diminished.
- After final penetration has occurred, thoroughly rinse and/or flood the surface with water.

## CLEAN-UP AND SAFETY

- Caution must be taken, as treated surfaces may be slippery until completely cured.
- No special clothing, breathing apparatus, goggles or gloves are necessary, but in enclosed areas it is advisable to wear an appropriate respirator to avoid possible irritation to breathing.
- Attention should be made to watches, eyeglasses, etc., as **AQURON**<sup>®</sup> 2000 Cure and Seal™ can etch glass or discolor aluminum if allowed to dry.
- Clean equipment using water and mild soap. Never store spray equipment without cleaning and following manufactures recommendations for storage between usages.

## SHELF LIFE

Shelf life is indefinite provided **AQURON**<sup>®</sup> Cure and Seal™ is kept tightly sealed in the original container when not in use.

## PACKAGING

**AQURON**<sup>®</sup> Cure and Seal™ is available in 5 gallon/18.9 liters and 55 gallon/208.2 liters, drum size and 330 gallon totes.

## MAINTENANCE

Special maintenance of treated area is not required.

## TECHNICAL SERVICES

Technical information and assistance may be obtained from your local dealer, or by calling the technical department of the **AQURON** HEADQUARTERS at (800) 342-4649. Email: [Info@aquron.com](mailto:Info@aquron.com)

### LIMITED WARRANTIES

**AQURON PRODUCTS EFFECTIVLY ADRESS PROBLEMS CAUSED BY MOISTURE INTRUSION WHEN PROPERLY APPLIED BY AQURON TRAINED KEY APPLICATORS. AQURON WILL WARRANT IT'S PRODUCTS, AS STATED AND PROVIDED WITH EACH AQURON PRODUCT, TO BE EFFECTIVE AGAINST MOISTURE INTRUSION THROUGH SOUND CONCRETE FOR A WARRANTY PERIOD OF ONE YEAR. THREE YEAR WARRANTIES ARE AVAILABLE (IF A WARRANTY APPLICATION IS COMPLETED AND APPROVED BEFORE PRODUCT APPLICATION AND WHEN THE 300 MWC HAS BEEN USED IN THE BATCH.) THE FOLLOWING LIMITATIONS APPLY TO THE AQURON PRODUCT WARRANTIES:**

- ALL PRODUCTS SHALL BE APPLIED BY AQURON TRAINED KEY APPLICATORS IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS FOR THE WARRANTY TO BE EFFECTIVE.
- ALL WARRANTY REMEDIES ARE LIMITED TO REFUND OF THE PURCHASE PRICE FOR THE AMOUNT OF PRODUCT COVERING THE AFFECTED AREA
- MECHANICALLY RELATED MOISTURE MIGRATION IS SPECIFICALLY EXCLUDED FROM ANY AQURON WARRANTY
- ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES FOR FITNESS FOR USE OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED, EXCLUDED AND WAIVED TO THE FULLEST EXTENT ALLOWED BY LAW.

For all Limited Warranty questions or for warranty service, contact Aquron Headquarters at the numbers below.

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