PRODUCT DATA SHEET

Utilizing worldwide resources, Aquron Corporation has brought together a community of experts that are passionate about providing environmentally responsible solutions to challenges within all areas of concrete construction, which results in extending the life cycle of both new and existing concrete.

2000 Cure and Seal™

SCAN TO SEE THE AQURON ADVANTAGE

CSI DIVISION

03 39 35

DESCRIPTION

AQURON® 2000 Cure and Seal™ offers a proven solution by reducing permeability and porosity in concrete. It is an effective treatment that is aqueous-borne, penetrating sub-surface densifying, and molecular bonding.

BASIC USE AND APPLICATIONS

AQURON® 2000 Cure and Seal™ is a permanent, clear treatment/preservative/sealant solution for new pneumatically applied or cast in place concrete. **AQURON®** 2000 Cure and Seal™ will reduce permeability, porosity 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 hydrogel 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 concrete installations including bridges, decks, streets, airport runways, basements, parking garages, 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 reducing the effects of internal chemical reactions. Also, **AQURON®** 2000 Cure and Seal™ significantly slows the rusting or corroding of embedded steel.

PRODUCT BENEFITS AND CHARACTERISTICS

- Reduces permeability & porosity
- 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 in the interior of the concrete
- Increases strength
- Improves post carbonation effects
- Zero VOC/VOS content
- Reduces internal water migration
- Makes ice removal/cleaning easier
- Improves internal acid/chemical resistance
- Lowers internal chemical reaction potential
- Lowers creep potential
- Lowers electrostatic discharge potential
- Significantly enhances the cure
- Reduces the effects of freeze/thaw
- Non-structural repair

MEETS OR EXCEEDS THESE 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 C309 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

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.
- DO NOT ALLOW TO FREEZE
- If the freshly placed concrete contains IPL cement, wait 24 hours after concrete has been placed and finished before applying **AQURON®** 2000 Cure and Seal™

INSTALLATION

Job Conditions

1. Low Temperatures: 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 forecasted to drop below 40°F/4.5°C during the next 6 hours. Use temp gun to verify.
2. 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.
3. Wind: Caution should be taken in windy conditions. Do not allow product to contact surfaces not intended for **AQURON®** 2000 Cure and Seal application.
4. Dry: If allowed to dry, **AQURON®** 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®** 2000 Cure and Seal™ dries on surface.
5. Penetration: The surface can be damp, but there should be no standing water. Anything preventing penetration must be removed.
6. Strength: Do not dilute. Use as supplied.
7. Applying impervious coatings, coverings, etc: Once **AQURON®** 2000 Cure and Seal™ is applied, wait 28 days on new concrete.

APPLICATION PROCEDURE
FOR ESTABLISHED CURED CONCRETE:

1. Apply **AQURON®** 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.
2. Start application as soon as concrete has reached initial set or as soon as can be walked on without imprinting surface.
3. **AQURON®** 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®** 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.
4. If **AQURON®** 2000 Cure and Seal™ white pigmentation is being utilized, product should be continually agitated to maintain pigment in solution.
5. 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.
6. Entire area being treated is to be saturated, but do not allow **AQURON®** 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®** 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.
7. When ambient or substrate temperatures are extremely hot (95°F or above), the surface to which **AQURON®** 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®** 2000 Cure and Seal™ application has diminished.
8. 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®** 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 manufacturers recommendations for storage between usages.

SHELF LIFE

Contents inside of packaging has a 1 year shelf life, provided **AQURON®** 2000 Cure & Seal is kept in original container with lids tightly sealed.

PACKAGING

AQURON® 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

LIMITED WARRANTIES

AQURON 2000 Cure and Seal™ products effectively reduces permeability and porosity when properly applied by Aquron Trained Key Applicators. Aquron will warrant that Aquron Cure and Seal™ will reduce permeability and porosity through sound concrete for a warranty period of one-year. Extended warranties are available and an application must be filled out prior to applying the product.

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.**
- **BECAUSE AQURON 2000 CURE AND SEAL™ IS A PENETRATING PRODUCT, AQURON DOES NOT WARRANT AGAINST ANY DAMAGE TO THE SURFACE OF THE CONCRETE CAUSED BY DEICING AGENTS OR ANY OTHER SOURCE OF DAMAGE.**

IT IS THE RESPONSIBILITY OF THE KEY APPLICATOR TO DETERMINE FITNESS FOR USE OF THIS PRODUCT

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

AQURON CORPORATION P.O. BOX 758 ROCKWALL, TEXAS 75087 972.722-5444 OR 800.342.4649 (TOLL FREE USA)

www.aquron.com