



# AQURON® 2000

PROVEN SINCE 1985

## CONCRETE PRESERVATION TREATMENT SOLUTION

### MANUFACTURER

**Aquron Corporation**  
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### PRODUCT DESCRIPTION

**Aquron® CPT-2000** is a clear, aqueous borne sub-surface molecular bonding and waterproofing solution/treatment.

### BASIC USE

**Aquron® CPT-2000** is a permanent, clear treatment/preservative/sealant solution for new or old concrete installations. **Aquron® CPT-2000** will seal the matrix and significantly preserve its imbedded steel. **Aquron® CPT-2000** is a highly reactive catalytic agent which reacts with free alkali and/or alkaline hydrates by internally producing a silica hydro-gel which fills the pore spaces and the voids around aggregate. Furthermore, alkali is converted to a neutral compound structure, reducing the potential for internal chemical reactions. More density is added, additional bonding strength is provided and concrete is permanently hydrostatically sealed from within.

**Aquron® CPT-2000** is an ideal product for concrete or other masonry surfaces to be painted or coated since it enhances the bonding quality of the surface. **Aquron® CPT-2000** prevents peeling, cracking and loss of bond caused by capillary moisture or internal chemical reactions that can caused saponification.

**Aquron® CPT-2000** 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, parking lots, parking garage decks, sidewalks, driveways, slabs etc..

The use of **Aquron® CPT-2000** will significantly protect concrete from damages (spalling etc.) caused by freeze-thaw cycles, especially where road salt or calcium chloride has been used. **Aquron® CPT-2000** neutralizes existing internal corrosives such as acids and chlorides preventing internal chemical reactions. Also, **Aquron® CPT-2000** severely retards the rusting or corroding of imbedded steel. In projects where there are higher levels of chlorides, use the **Aquron® 7000 System**.

**Aquron® CPT-2000** will arrest or at least severely retard concrete being deteriorated by alkali-aggregate or alkali silicate reactivity. In addition, by treating concrete not yet affected, the potential will be virtually eliminated.

### SOME ATTRIBUTES

- Permanently integrally seals concrete
- Stabilizes internal humidity
- Allows necessary vapor transmission
- Preserves matrix integrity
- Increases surface abrasion resistance
- Excellent pre-treatment for coating systems
- Adds density
- Improves thermal resistance
- Increases strength
- Improves past carbonation effects
- Zero VOC/VOS content
- Prevents internal water migration
- Makes ice removal/cleaning easier
- Improves acid/chemical resistance
- Lowers internal chemical reaction potential
- Lowers creep potential
- Lowers electrostatic discharge potential

### PRECAUTIONS

- Spills or spray droplets in contact with glass should be removed immediately by flushing with water. DO NOT ALLOW TO DRY, as etching can occur.
- Some discoloration of aluminum can occur.
- Do not apply **Aquron® CPT-2000** when air and/or substrate temperatures are less than 37°F/2.8°C and will not decrease to less than 37°F/2.8°C for 6 hours.

### COMPOSITION

**Aquron® CPT-2000** is a highly reactive catalytic agent in water borne proprietary colloidal silicate base which produces a silica-hydro gel below the surface and inside its matrix.

### APPLICABLE STANDARDS

- ASTM C-67 Section 7 Water absorption
- ASTM-67 Section 9 Suction
- ASTM C-67 Section 10 Efflorescence
- ASTM C-666 Freeze-thaw resistance
- ASTM C-23-69 Artificial weathering
- ASTM C-666 Salt attack resistance
- AASHTO T260 Chloride ion content
- AASHTO T259-78 Chloride ion penetration
- USDA Approved for use in food processing areas.
- VOC/VOS Compliant

### PHYSICAL PROPERTIES

|                       |        |
|-----------------------|--------|
| Physical.....         | liquid |
| Color .....           | clear  |
| Odor.....             | none   |
| Specific gravity..... | 1.11±  |
| Flash point .....     | none   |
| pH.....               | 12±    |

## ■ PHYSICAL PROPERTIES cont.

|                              |                |
|------------------------------|----------------|
| Toxicity . . . . .           | none           |
| Boiling point . . . . .      | 230°F/110°C    |
| Freeze temperature . . . . . | 32°F/0°C       |
| Hazardous vapors . . . . .   | none           |
| Weight per gallon . . . . .  | 9.18lbs/4.16kg |
| Environmentally . . . . .    | neutral        |
| User . . . . .               | friendly       |
| Shelf life . . . . .         | indefinite     |
| Freeze harm . . . . .        | none           |

(allow to thaw completely)

|                                  |                                |
|----------------------------------|--------------------------------|
| Surface bond quality . . . . .   | excellent                      |
| Flammability . . . . .           | none                           |
| VOC/VOS content . . . . .        | none                           |
| Resistance to UV . . . . .       | excellent                      |
| Paintable . . . . .              | yes                            |
| Pollutants . . . . .             | none                           |
| Waste disposal methods . . . . . | Non-hazardous                  |
| Resistance to abrasion . . . . . | excellent                      |
| Polymerization . . . . .         | excellent                      |
| Solids before applied . . . . .  | nil                            |
| Solids after applied . . . . .   | 100%                           |
| R-Factor . . . . .               | increase up to 20              |
| Recommended coverage . . . . .   | 150 - 200sq.ft. per US Gallon/ |

## ■ INSTALLATION

### JOB CONDITIONS

1. Do not proceed with application of **Aquron® CPT-2000** when ambient temperature and/or substrate temperatures are less than 37°F/2.8°C or forecasted to drop below 37°F/2.8°C during the next 6 hours.
2. Should temperatures be extremely hot, cool surface with sufficient water to decrease temperatures.
3. Caution should be taken in windy conditions as **Aquron® CPT-2000** if allowed to dry on, can etch glass or dull shiny aluminum. If contact is made with glass or aluminum, rinse surface immediately with water before **Aquron** dries on surface.
4. As a water borne product **Aquron® CPT-2000** must have access to the surface, any previous coatings or heavy build up of oil or grease must be removed.
5. Do not dilute. Use as supplied.
6. Once **Aquron® CPT-2000** is applied wait 72 hours on **new** concrete or 48 hours on existing, before applying impervious coatings, coverings etc.
7. **Aquron® CPT-2000** only seals the concrete itself, not fractures.
8. Concrete blocks are not a continuously cementitious material, therefore, **Aquron® CPT-2000** may require repetitive applications to seal and waterproof. **Aquron® 3000** is recommended for concrete block.

### APPLICATION PROCEDURE (FOR ESTABLISHED CURED CONCRETE)

1. **Aquron® CPT-2000** must be applied to existing concrete with a high pressure airless sprayer using a 0.13", 25 degree fan tip for steel troweled smooth concrete and a 0.17-0.19" tip for porous or weathered concrete.
2. Pre-wet area of application with water to dampen. All pooled and puddled areas must be dispersed, continue to keep area damp until **Aquron® CPT-2000** has been applied.

### WARRANTIES AND LIMITATIONS OF LIABILITY

Aquron Corporation ("Seller") warrants that if any goods supplied prove defective in workmanship or materials, that Seller shall replace them or refund their purchase price. Aquron Corporation offers a performance warranty for its **Aquron® CPT-2000** product. This warranty for the performance of **Aquron® CPT-2000** must be requested from the Aquron Corporation and initiated prior to applying **Aquron® CPT-2000**. Failure to initiate warranty of performance prior to application, holds harmless Aquron Corporation of any liability arising from its use, and user assumes all risk and liabilities whatsoever in connection therewith. The terms of this paragraph may not be orally modified. There are no warranties express or implied which extend beyond the face herewith.

3. Apply **Aquron® CPT-2000** at a rate no less than 1 litre to 5sq/m / 200ft per gallon. Normally to achieve this rate of application of **Aquron® CPT-2000**, at least 2 applications will be needed. Apply first application covering area in one direction, then apply second application once first has penetrated surface (normally 10-60 mins, do not allow to dry). Achieve an even coverage by applying second application at 90° to the first, i.e. a crisscross pattern!
4. Start application holding spray tip approximately 8"-10"/200-300mm from concrete surface, make application using overlapping spray pattern with a fanning motion at the end of each pass.
5. Entire area being treated is to be saturated, but do not allow **Aquron® CPT-2000** to puddle. Disperse puddled areas with broom 15-30 minutes after application is completed (do not allow puddles of **Aquron® CPT-2000** to dry).
6. Always start application at lowest possible area first and proceed to higher elevations. On vertical application (walls) start at the bottom and proceed up the vertical surface with horizontal strokes.
7. Check whether **Aquron® CPT-2000** has purged to the surface of concrete any oil, gas, greases and salts etc., these must be thoroughly washed or abraded away before adhesives or coatings are applied.
8. When application is to weeping hydrostatic walls or floors, at least two applications are necessary with the second applied immediately following the first.

## ■ CLEAN-UP & 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® CPT-2000 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 manufacturer's recommendations for storage between usage.

## ■ SHELF LIFE

Shelf life is indefinite provided containers are kept tightly sealed when not in use.

## ■ PACKAGING

**Aquron® CPT-2000** is available in 5 gallon/18.9 liters and 55 gallon/208.2 liters drum size. **Aquron® CPT-2000** is also available in bulk containers.

## ■ 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 Corporation at (972) 412-4649, (800) 342-4649 Office, or (972) 412-1543 FAX or toll free FAX (888) 412-1543.

### LOCAL AREA REPRESENTATIVE