



AQURON® 2000™

Proven Since 1985

Concrete Preservation Treatment CONCRETE PROTECTION AND WATERPROOFING

MANUFACTURER

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PRODUCT DESCRIPTION

AQURON® CPT-2000™ is a clear, aqueous borne sub-surface densifying, 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 cause 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, basements, 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
- Penetrates walls and floors 3" to 6"
- 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

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
- ASTM C 518 Thermal conductivity resistance
- ASTM D 5084-91 Permeability
- AASHTO T260 Chloride ion content
- AASHTO T259-78 Chloride ion penetration
- USDA Approved for use in food processing areas.
- VOC/VOS Compliant

COMPOSITION

AQURON® CPT-2000™ is a highly reactive catalytic agent in a water borne proprietary colloidal silicate base which produces a silica-hydro gel below the surface and inside the concrete's matrix.

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.

PHYSICAL PROPERTIES

Physical	Liquid
Color	clear
Odor	none
Specific gravity	1.11±
Flash point	none
pH	12±
Toxicity	none
Boiling point	230°F/110°C
Freeze temperature	32°F/0°C
Hazardous vapors	none

PHYSICAL PROPERTIES CONT...

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/ 3.5m ² - 4.9m ² per liter

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 .013", 25 degree fan tip for steel troweled smooth concrete and a .017 - .019" tip for porous or weathered concrete.
2. Pre-wet area of application with water to cool concrete that is extremely hot (95°F or higher). All pooled and puddled areas must be dispersed, continue to keep area damp until AQURON® CPT-2000™ has been applied.
3. Apply AQURON® CPT-2000™ at a rate no less than 1 liter to 5m² / 200 sq. ft per gallon. Normally to achieve this rate of application of AQURON® CPT-2000™ at

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 this Aquron® product. The warranty for the performance of this Aquron® product must be requested from the Aquron Corporation and initiated prior to applying this Aquron® product. 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.

Application Procedure Cont...

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 min., 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 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 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® 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

Self 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) 722-5444, (800) 342-4649 Office, or (972) 722-6412 FAX or toll free FAX (888) 412-1543. E-mail: welcome – info@aquron.com

Local Area Representative