



AQURON® ACE™

Proven Since 1985

Cleaner of Efflorescence HIGH PERFORMANCE CLEANERS

MANUFACTURER

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PRODUCT DESCRIPTION

AQURON® ACE™ is a clear yellow/green liquid acid base cleaner of efflorescence.

BASIC USE

AQURON® ACE™ is a blend acid based mixture for the cleaning of efflorescence. **AQURON® ACE™** minimizes the potential damage to the surface being cleaned, and is more user friendly than muriatic acid as efflorescence cleaner.

Efflorescence is a whitish bloom film or crystal formation resulting from deposition of minerals salts, which occurs when water migrates from the interior of concrete and brings particulate matter with it that eventually, forms the efflorescence when the water subsequently evaporates. These minerals or salts may have been present in the concrete's aggregates, mixing water when produced, or possible soluble calcium hydroxide leaching to the surface.

For efflorescence to occur, three conditions must simultaneously exist, (1) an available source of soluble salts inside the affected masonry, (2) available free moisture or water to dissolve salts, and (3) means of movement, i.e., hydrostatic pressure for migration of dissolved salts.

As water moves through a concrete structure it picks up mineral salts and dissolves them, and as it reaches the surface it evaporates leaving the salts deposited on the surface. This deposit can build to a thick film over time. In addition the deposits may also consist of the sulfates of sodium, potassium, or calcium. These latter salts are described as temporary efflorescence because they can be washed off with water and usually disappear during a heavy rain. However, the calcium carbonate type of efflorescence cannot be removed with water and is described as permanent. It commonly has to be removed with an acid, but much care must be taken in removing with the well-known method of a diluted solution of muriatic acid as it may attack concrete as well as the efflorescent deposit.

AQURON® ACE™ is now available as an effective, more gentle, user-friendly cleaning agent. To avoid damaging the surface of affected masonry the gentlest possible cleaning product and method is preferred.

Prior to removing efflorescence the source(s) of the problem should be determined and practical steps taken to correct the problem(s).

AQURON® offers products produced to eliminate the conditions described above that cause efflorescence. The first and most gentle method of removing efflorescence is dry brushing. If dry brushing is not effective, a brush dipped in water, or a gentle water-flood while brushing (water pressure should always be kept at the lowest effective level) is next. Once the above methods prove ineffective, **AQURON® ACE™** is used for a safe gentle removal of efflorescence. Treat cleaned masonry surface with **AQURON** products for the prevention of reoccurrence of efflorescence.

SOME ATTRIBUTES

- Easy to use
- No hazardous fumes
- No VOC/VOS
- Non-combustible
- Non-flammable
- Minimal effect on mortar
- Clean equipment using only water
- Not harsh on masonry
- Easy to control cleaning area

PRECAUTIONS

- Avoid contact with eyes. If contact occurs, immediately and thoroughly flush with clean running water, lifting upper and lower eyelids occasionally. Seek medical attention if redness persists or irritation develops.
- Avoid contact with skin. If contact is made, flush with copious amounts of water, followed by washing with soap.
- Keep away from children.
- Protect surrounding vegetation and landscaping.

COMPOSITION

AQURON® ACE™ proprietary blend in a buffered acidic base that is yellow/green clear liquid.

PHYSICAL PROPERTIES

Physical	liquid
Color	yellow/green/clear
Odor	none
Specific gravity	1.01±
Flash point	none
pH	3.80±
Boiling point	230°F to 110°C
Freeze temperature	32°F/0°C
Hazardous vapors	none
Weight per gallon	9.30±/4.22kg
Environmentally	safe, diluted
User	friendly with caution
Shelf life	indefinite
Flammability	none
VOC/VOS content	none
Disposable methods	Proper/safe
Equipment cleaning solvent	mild soap & water
Coverage rate	150-300 sq. ft. per Gallon / 3.5m ² per Liter

INSTALLATION SUGGESTIONS

Job Conditions

1. Do not proceed with application of AQURON® ACE™ when ambient temperature is less than 34°F/1°C or forecasted to drop below 34°F/1°C during the next 6 hours.
2. Do not dilute. Use as supplied.
3. Do not high-pressure spray apply AQURON® ACE™. See Application Procedure below.
4. Do not apply AQURON® ACE™ in rainy conditions.
5. Wear protective eyewear and rubber gloves, boots and apron during application.
6. Protect vegetation by covering.
7. Protect cloth awnings by covering.

Application Procedures

(WITH SURFACE FORMING MEMBRANE)

1. Always apply a test area to establish actual use, and product consumption where practical. AQURON® ACE™ can lighten masonry surface.
2. Apply AQURON® ACE™ sparingly using a medium bristle brush to affected area of efflorescence only.
3. Avoid using AQURON® ACE™ on surrounding areas not in need of cleaning.
4. Using a medium bristle brush (or, apply with a sponge in areas where damage could occur to sensitive vegetation and awnings, etc.

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 Procedures Cont...

5. Brush AQURON® ACE™ with medium bristled brush using a clockwise motion, and then with a counter clockwise motion affecting all areas where efflorescence deposits are located.
6. After cleaning with the AQURON® ACE™ thoroughly rinse surface with copious amounts of water.
7. Let surface dry and check surface to see if all efflorescence deposits have been cleaned from surface.
8. Should there be any remaining efflorescence deposits, repeat steps 4 through 7.

*Note: Always do a test spot to establish quantity and duration of scrubbing action. This is not only recommended, but is essential.

CLEAN-UP AND SAFETY

Caution should be taken with AQURON® ACE™ as with any acid based cleaner:

- Always use protective eye goggles.
- Always use rubber/neoprene gloves.
- Always use rubber/neoprene apron.
- Always wear rubber shoes.

If contact is made with skin, wash immediately with water. If contact is made with eyes, flush with potable water lifting lower and upper eyelids. If irritation persists, get medical attention.

SHELF LIFE

Shelf life is indefinite provided product is maintained in original containers with lids tightly sealed. If product freezes, allow to thaw completely, and stir.

PACKAGING

AQURON® ACE™ is available in 5 gallon/18.9 liters, 55 gallon/ 207.9 liter drums.

AQURON® ACE™ is also available in bulk containers.

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