I-Shield
NATURAL STONE AND CONCRETE SEALER

MANUFACTURER

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PRODUCT DESCRIPTION

AQURON® I-Shield™ is a clear, invisible aqueous resin siliconate sealer and penetrating treatment for brick, slate, natural stone, stucco, concrete, and other masonry.

BASIC USE

AQURON® I-Shield™ is a water-borne repellent that significantly reduces water penetration, providing a tough breathing type water barrier beneath and to the surface.

AQURON® I-Shield™ helps keep surfaces clean while preserving the natural appearance of the masonry and concrete.

AQURON® I-Shield™ greatly reduces or retards efflorescence. It's application resist the cracking and spalling of vertical and horizontal surfaces from the impact of successive freeze-thaw cycles. The use of

AQURON® I-Shield™ will enhance surface traction.

AQURON® I-Shield™ is non-Polluting, non-toxic, non-flammable and user friendly.

BENEFITS

- Significantly reduces water penetration
- Improves traction
- Resists freeze-thaw spall-off
- Abrasion resistant
- Makes ice removal easier
- Impervious to most atmospheric contaminants
- Retards or eliminates efflorescence
- Hydrocarbon resistant
- Can be used under wet conditions, such as beach entries, fountains or rock waterfalls.

PRECAUTIONS

- Spills or spray droplets should be removed immediately because they can etch glass. Remove immediately with dry cloth or sponge.
- **DO NOT ALLOW TO DRY.**
- **Do not allow product to freeze prior to application.**
- If product is over-applied it may cause the surface to turn white or discolor.

  This occurs if:
  1. Material ponds or puddles (too much product)
  2. Over spray is made over dried coating. Protect adjacent areas from over spray if designated area cannot be completed in one application.
  3. Materials are applied to a surface that is completely dry. **A moisture meter must be used prior to application, and the reading on the meter must be in the low range. Contact Aquron Technical Deparment for recommendations on a moisture meter.**

APPLICABLE STANDARDS

AQURON® I-Shield™ meets or exceeds the following standards:

- ASTM C-672 Section 7 - Water absorption
- ASTM-672 Section 9 – Suction
- ASTM C-67 Section 10 – Efflorescence
- ASTM C-666 - Freeze-thaw resistance
- ASTM C-666 - Salt attack resistance
- AASHTO T259-78 - Chloride ion penetration
- VOC/VOS Compliant

PHYSICAL PROPERTIES

Physical	Liquid
Color	Clear
Odor	Slight
Specific gravity	1.02±
Weight per gallon	3.83kg/8.46lbs
Boiling point	212° F/100°C
pH	10±
Solvent	Water
Flash Point	None
Toxicity	None
Freeze temperature	32°F/0°C
Hazardous Vapors	None
Environmentally Friendly	Yes
Freeze harm	Do not allow
Flammability	None
VOC/VOS Compliant	Yes
Resistant to UV	Excellent
Paintable	No
Waste disposal methods	Non-hazardous
Equipment cleaning solvent	Mild soap & water

INSTALLATION
JOB CONDITIONS

1. Do not proceed with application of **AQURON® I-Shield™** when ambient temperature and/or substrate temperatures are less than 50°F/10°C or fore-casted to drop below 50°F/10°C during the next 6 hours.

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2. Do not apply **AQURON® I-Shield™** in rainy conditions or when rain is expected within 24 hours.
3. Should temperature be extremely hot, application should be made at late night or early morning, preferably early morning.
4. Caution should be taken in windy conditions as **AQURON® I-Shield™** if allowed to dry on glass or any area not specified to be treated is very difficult to remove. (Remove immediately with dry cloth.)

APPLICATION PROCEDURE

1. Coverage Rate:

TYPE OF SURFACE	ft^2/GAL	m^2/L
Limestone	200-300	4-7
Adobe	250-350	5-8
Brick	300-550	7-13
Grout	350-700	8-16
Plaster	350-550	8-13
Stucco	200-450	7-12
Concrete Brick	200-300	4-7
Man-made Stone	250-450	5-10
Slate	400-500	9-12
Clay Tile	400-600	9-14
Concrete	300-450	7-10
Pavers	300-400	7-9

2. Application **is to be made to a dry surface** with low-pressure spray equipment with tip size of .026 to .072. **DO NOT ATOMIZE** (use pump-up commercial sprayer with fan tip). Larger areas may use an airless sprayer at the lowest pressure and a # 619 spray tip.
3. Holding tip 6"-12"/150-300mm from surface using overlapping spray pattern and fanning motion at the end of each horizontal pass. **Do not apply second coat.**
4. Entire area being treated is to be applied in a single application. **DO NOT ALLOW AQURON® I-Shield™ to puddle.** If so, disperse with broom immediately to prevent the application from drying and whiting.
5. Precautions should be taken to cover any areas not intended to be sprayed, because dried product is difficult to remove. Should over spray or accidental contact be made, remove product with dry cloth before it dries.
6. Depending on temperature and other weather conditions, **AQURON® I-Shield™** will normally dry in 12-24 hours at 70°F/21°C.
7. Do not apply to uncured plaster, concrete, mortar, or stucco. Surfaces **must be dry** before **AQURON® I-Shield™** is used.

CLEAN -UP AND SAFETY

- No special clothing, breathing apparatus, goggles or gloves are necessary but in enclosed areas it is advisable to wear a suitable respirator to avoid possible irritation to breathing.
- Attention should be made to watches, spectacles or eyeglasses etc., because **AQURON® I-Shield™** once dried is very difficult to remove.
- Clean all equipment using water and mild soap. Never store spray equipment without cleaning and following manufacturer's recommendations for storage between usages.

SHELF LIFE

Contents inside of packaging has a 1 year shelf life, provided **AQURON®** I-shield is kept in original container with lids tightly sealed.

PACKAGING

AQURON® I-Shield™ is available in 5 gallons/18.9 liters and 55 gallons/208.2 liters drum size.
AQURON® I-Shield™ 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** Aquatics Division at (972) 722- 5444.

E-mail: info@aquron.com

AQURON Corp. HQ (972) 722-6412 FAX
(888) 412 1543 Toll free

LIMITED WARRANTIES

AQURON PRODUCTS EFFECTIVELY ADDRESS 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.

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.**
- **IT IS THE RESONSIBILITY OF THE KEY APPLICATOR TO DETERMINE FITNESS FOR USE.**

For all Limited Warranty questions or for warranty service, contact Aquron Headquarters at (800) 342-4649.