

## I-Shield NATURAL STONE AND CONCRETE SEALER

### MANUFACTURER

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### PRODUCT DESCRIPTION

**AQUORON**<sup>®</sup> I-Shield™ is a clear, invisible aqueous resin silicate sealer and penetrating treatment for brick, slate, natural stone, stucco, concrete and other masonry.

### BASIC USE

**AQUORON**<sup>®</sup> I-Shield™ is a water-borne repellent that significantly reduces water penetration, providing a tough breathing type water barrier beneath and to the surface.

**AQUORON**<sup>®</sup> I-Shield™ helps keep surfaces clean while preserving the natural appearance of the masonry and concrete.

**AQUORON**<sup>®</sup> I-Shield™ conditions surfaces for subsequent applications of paint, stains, coatings, adhesives etc. **AQUORON**<sup>®</sup> I-Shield™ greatly decreases or retards efflorescence. Its application resists the cracking and spalling of vertical and horizontal surfaces from the impact of successive freeze-thaw cycles.

The use of **AQUORON**<sup>®</sup> I-Shield™ will enhance surface traction (as well as the bonding quality of paints and other topicals).

**AQUORON**<sup>®</sup> 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
- Conditions surface for topicals
- 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. Overspray 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 **medium range or below**.

### APPLICABLE STANDARDS

**AQUORON**<sup>®</sup> 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	8±
Solvent	Water
Flash Point	None
Toxicity	None
Freeze temperature	32° F/0 °C
Hazardous Vapors	None
Environmentally	None
Shelf Life	Indefinite
Freeze harm	Do not allow
Flammability	None
VOC/VOS Compliant	Yes
Resistant to UV	Excellent
Paintable	Yes
Waste disposal methods	non-hazardous
Equipment cleaning solvent	mild soap & water

### INSTALLATION JOB CONDITIONS

1. Do not proceed with application of **AQUORON**<sup>®</sup> I-Shield™ when ambient temperature and/or substrate temperatures are less than 50°F/10°C or forecasted to drop below 50°F/10°C during the next 6 hours.
2. Do not apply **AQUORON**<sup>®</sup> 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**<sup>®</sup> 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 <sup>2</sup> /GAL	m <sup>2</sup> /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 Pavers	300-450	7-10

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 second coat.

4. Entire area being treated is to be applied in a single application. **DO NOT ALLOW AQURON**<sup>®</sup> I-Shield™ **to puddle**. If so, disperse with broom immediately to prevent the application from drying and whitening.

5. Precautions should be taken to cover any areas not intended to be sprayed, because dried product is difficult to remove. Should overspray or accidental contact be made, remove product with dry cloth before it dries.

6. Depending on temperature and other weather conditions, **AQURON**<sup>®</sup> 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 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**<sup>®</sup> 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

Shelf life is indefinite provided containers are kept tightly sealed when not in use. **DO NOT ALLOW FREEZING PRIOR TO APPLICATION**

#### PACKAGING

**AQURON**<sup>®</sup> I-Shield™ is available in 5 gallon/18.9 liters and 55 gallon/208.2 liters drum size.

**AQURON**<sup>®</sup> 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: [aquaticsdivision@aquron.com](mailto:aquaticsdivision@aquron.com)

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#### LIMITED WARRANTIES

**AQURON** products effectively address problems caused by moisture intrusion when properly applied by Aquron Trained Key Applicators. Aquron will warrant its products, as stated and provided with each Aquron product, to be effective against water intrusion for a warranty period of one-year. Two-year warranties are available if a warranty application is completed and approved before product application. 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.

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

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