

I-SHIELD NATURAL STONE AND CONCRETE SEALER

MANUFACTURER

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PRODUCT DESCRIPTION

Aquron® I-Shield™ is a clear, invisible Aqueous Resin silicanate sealer and penetrating treatment for brick, slate, natural stone, stucco, concrete and other masonry.

BASIC USE

AQURON® I-Shield™ is a water-borne waterproofing repellent that provides 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™ conditions surfaces for subsequent applications of paint, stains, coatings, adhesives etc. AQURON® I-Shield™ retards or eliminates efflorescence, and its application resists cracking and spalling of vertical and horizontal surfaces from successive freeze thaw cycles.

The use of AQURON® I-Shield™ will enhance surface traction (as well as the bonding quality of paints and other topicals)

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

SOME ATTRIBUTES

- Stays pliable
- Waterproofs surface
- Improves traction
- Resists freeze/thaw spall-off
- Abrasion resistant
- Makes ice removal easier
- Impervious to most atmospheric contaminates
- Conditions surface for topicals
- Retards or eliminates efflorescence
- Hydrocarbon resistant
- Can be used for underwater applications

PRECAUTIONS

Spray can etch glass. Remove immediately with water and cloth or brush (**Do not allow to freeze prior to application**).

Hazing & Whiting can occur 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.

APPLICABLE STANDARDS

AQURON® I-Shield™ meets or exceeds the following 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 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	230°F/110°C
pH	8±
Solvent	water
Flash point	none
Toxicity	none
Freeze temperature	32°F/0°C
Hazardous vapors	none
Environmentally	neutral
Shelf life	indefinite
Freeze harm	DO NOT ALLOW
Flammability	none
VOC/VOS compliant	yes
Resistance 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 **AQURON® 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 **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.
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 water and cloth or brush**).

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 second coat**.
4. Entire area being treated is to be applied in a single application, **DO NOT ALLOW Aquoron® 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, as dried product is difficult to remove. Should overspray or accidental contact be made, remove product with water and brush or 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 new 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., as 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 usage.

SHELF LIFE

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

DO NOT ALLOW FREEZING PRIOR TO APPLICATION

PACKAGING

AQURON® I-SHIELD™ is available in 5 gallon/18.9 liters and 55 gallon/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 **(800) 342 4649**

E-mail aquaticsddivision@aquoron.com

AQURON Corp. HQ at (972) 722-5444, **(800) 342-4649** Office, or (972) 722-6412 FAX or toll free FAX (888) 412-1543

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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.

Local Area Representative