



**PRICE RESEARCH, LTD.**  
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# PRODUCT DATA

## PRICE AQUA SILANE-40 (V.O.C. Compliant)

**PRODUCT NAME:** PRICEAQUASILANE-40 (V.O.C. Compliant)  
 A water-base alkylalkoxysilane penetrating water repellent for limestone, pre-cast and concrete surfaces (breathable)

**MANUFACTURER:** PRICE RESEARCH, LTD.  
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 Kansas City, MO 64129  
 Phone: (816) 924-5955

**PRODUCT DESCRIPTION:**  
 PRICE AQUA SILANE-40 is a water-based alkylalkoxysilane penetrating water repellent. It is designed specially for limestone, pre-cast, concrete surfaces and all kinds of brick and block masonry. PRICE AQUA SILANE-40 reduces bonding of airborne hydrocarbon, reduces water damage from freeze-thaw, protects against efflorescence and has excellent ultraviolet resistance.

**Features:**

1. Provides excellent chloride screen.
2. Extremely high alkali resistance.
3. Dries tack-free and skid resistant.
4. Long lasting protection for new as well as old concrete surfaces.
5. Spalling and scaling of concrete is eliminated.

**Recommended For:**

- Any Concrete Structures  Parking Structures  Parking Decks  Lane Barriers  Bridges
- Ramps  Marine Platforms

**Limitations:**

- Air and surface temperature must be above 40° F during application.
- Caulking should be installed prior to application.
- Protect surrounding non-masonry surfaces, such as glass, aluminum, etc.
- Inadvertent splashes should be removed with water before the solution has dried on surface.
- Do not apply when rain is predicted within 24 hours.
- NOTE: Store at room temperature (68° F)

Meets and surpasses Fed. Spec. SS-W-110 b (GSA-FSS) Performance.

**TECHNICAL DATA:**

|   |   |
|---|---|
| Color (gardner) . . . . .                                     | 2 max.  |
| Odor . . . . .  | None  |
| Weight . . . . .  | 8.8 lbs. per gallon   |
| Carrier . . . . .   | water   |
| Composition . . . . .   | Alkylalkoxysilane in water  |
| Active Alkylalkoxysilane Net . . . . .                        | 40%   |
| VOC Content (EPA Method 24) . . . . .                         | Less than 250 gams/liter  |
| Flash Point (ASTM D3278-82) . . . . .                         | Greater than 200° F SETA  |
| Specific Gravity -25° . . . . .                               | 0.96  |
| Average Depth Penetration<br>(AASHTO T259 and T260) . . . . . | Less than 0.5lbs./yd. <sup>3</sup><br>(Criteria of 1.5 at ½" level)<br>0.00lbs./yd. <sup>3</sup><br>(Criteria 0.75 at 1' level) |

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|  |   |
|--|---|
| Water Absorption Test (ASTM C642-82)<br>(OK. DOT. STD.) . . . . .                | 0.40% / 48hrs. 1.1% / 50 days   |
| Scaling Resistance Test (ASTM C672-84)<br>(Non-air-entrained Concrete) . . . . . | 0 rating "No Scaling"   |
| NCHRP 244<br>Series II-Cube Test (125 sq.ft./gallon application)                 |   |
| Water weight gain . . . . .  | 89% reduction-exceed criteria   |
| Absorbed Chloride . . . . .  | 89% reduction-exceed criteria   |
| NCHRP 244 Series IV Southern climate - Exposure Test                             |   |
| Absorbed Chloride . . . . .  | 91% reduction-exceed criteria   |
| Alberta Transportation and Utility Procedure (ATST2a)                            |   |
| Water repellent performance . . . . .  | 89.2%   |
| Resistance of chloride Ion penetration<br>(AASHTO T259 and T260) . . . . .       |   |
|  | Less than 0.26lbs./yd. <sup>3</sup><br>(Criteria of 1.5 at ½" level)<br>0.00lbs./yd. <sup>3</sup><br>(Criteria of 0.75 at 1" level) |
| Moisture vapor transmission rate (OHD-L-35) . . . . .                            | 101.5%  |
| Drying time under normal conditions . . . . .                                    | 4 hrs./75°F   |
| Surface appearance after application . . . . .                                   | None  |

**APPLICATION: TEST FIRST**

1. Protect all non-masonry surfaces
2. Surface to be treated should be free of dirt, grease, moisture, etc.
3. Surface should be completely dry. New concrete should be allowed to cure at least 14 days before application.
4. Product may be applied with low-pressure spray equipment, brush or roller.
5. **Vertical Surface Application:** When using low-pressure equipment apply a light mist to break the surface tension. This allows for good penetration. Then repeat the process with a flood coat (4 to 6 in. run down).
6. **Horizontal Surface Application:** Apply with low pressure spray, brush, roller or spray bar. Flood surface using one of the horizontal application methods. Redistribute any puddles or free standing material.

**Caution:**

DO NOT alter the material as supplied.

**Coverage Rate:**

|                                   |                         |
|-----------------------------------|-------------------------|
| Concrete (horizontal) . . . . .   | 200 sq.ft. / gal.       |
| Limestone . . . . .               | 100 - 150 sq.ft. / gal. |
| Smooth Pre-Cast . . . . .         | 100 - 125 sq.ft. / gal. |
| Rough Exposed Aggregate . . . . . | 80 - 125 sq.ft. / gal.  |
| Block (high density) . . . . .    | 75 - 100 sq.ft. / gal.  |
| Block (low density) . . . . .     | 50 - 75 sq.ft. / gal.   |
| Brick masonry . . . . .           | 300 - 500 sq.ft. / gal. |

**Life Expectancy:**

PRICE AQUA SILANE-40 should last a minimum of 5 years.

**AVAILABILITY AND COST:**

Please contact Price Research, Ltd.  
Phone: (816) 924-5955

**LIMITED WARRANTY:**

Price Research, Ltd. has no control over the storage, handling or use of this product, thus the guarantee is limited to the purchase price of the defective material only. All information and direction, as contained in this bulletin and on the product label, are intended for use by persons having experience and practical application skill. No other guarantees/warranties are expressed or implied.

**TECHNICAL SERVICE:**

Call Price Research, Ltd. at (816) 924-5955 and ask for Technical Service.