



# ChemMasters®

## Aquanil™ Plus 100

Penetrating Silane Sealer  
for Concrete and Masonry

**SPECIALTY CONSTRUCTION PRODUCTS**

### P R O D U C T D A T A

#### DESCRIPTION

**Aquanil Plus 100** is a penetrating, chemically reactive alkyltrialkoxysilane 100% solids, solvent based silane sealer that repels moisture and water from concrete and masonry. **Aquanil Plus 100** is non-etching, will not harm most uncoated glass, metal frames, or painted surfaces and leaves no residue to clean.

#### USES

- Horizontal or vertical, exterior or interior, cured concrete and masonry.
- Residential, commercial, industrial and municipal applications.
- All types of concrete flatwork, parking lots and structures, driveways, plazas, patios and walkways
- Median barriers, bridge decks and piers, ramps, pavements.
- Marine structures, vehicular repair and wash down facilities, loading docks.

#### ADVANTAGES

- No need to mask uncoated windows, metal frames, or painted surfaces – does not etch surfaces, leaves no residue, requires no cleaning after application.
- Minimizes chloride ion penetration from deicing chemicals, acid precipitation, salt air, and water in marine environments that reduces corrosion of the reinforcing steel from chloride exposure.
- Reduces spalling of new concrete surfaces due to freeze-thaw cycling.
- Chemically reacts with concrete and masonry components for long lasting protection.
- Penetrates deeply for maximum protection
- Seals pores and capillaries of substrate preventing liquid absorption while allowing excellent vapor transmission
- Does not alter the appearance or texture of substrates

#### TECHNICAL DATA

| Packaging / Part Number |           |          |
|-------------------------|-----------|----------|
| 5 gal/ 18.9L            | 36/pallet | F3320.05 |
| 55 gal/208L             | 4/pallet  | F3320.55 |

Exceeds National VOC Emission Standards for Architectural Coatings 40 CFR Part 59 < 600 g/L and where VOC regulated levels are <250 g/L.

#### NCHRP 244 Test Data

|                             | Control<br>% reduction | Aquanil Plus 100<br>% reduction |
|-----------------------------|------------------------|---------------------------------|
| Weight Gain                 | 0                      | 85                              |
| <b>Chloride Ion Content</b> |                        |                                 |
| Northern Exposure           | 0                      | 88                              |
| Southern Exposure           | 0                      | 97                              |

#### Test Data

|                                                            |                                                |
|------------------------------------------------------------|------------------------------------------------|
| ASTM E 514 Water Repellency<br>Wind Driven Rain Conditions | 100% reduction                                 |
| ASTM C 672 Scaling Resistance                              | Passes                                         |
| ASTM C 642 Absorption                                      | 95% red'n 24 hrs                               |
| ASTM E 96<br>Water Vapor Transmission                      | Does not effect<br>water vapor<br>transmission |
| ASTM G 53 Weathering<br>2,400 hours                        | < 5% loss<br>of repellency                     |
| ASTM D 1653<br>Permeability                                | > 85% breathability<br>vs. control             |
| Appearance                                                 | Clear                                          |
| VOC Content                                                | <250g/L                                        |
| Drying Time                                                | 1 to 4 hrs                                     |
| Reaction Time @ 50% R.H.<br>70°F (21°C)<br>50°F (10°C)     | 24 hrs<br>48 hrs                               |
| Solids                                                     | ~100%                                          |
| Flash Point                                                | 149°F (65°C)                                   |



**ChemMasters®**

An American Owned & Operated Company

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## Estimating Guide

Actual rate may vary based upon substrate texture & porosity  
D.O.T. requirements take precedent for D.O.T. projects

| Surface                                               | ft <sup>2</sup> / gal (m <sup>2</sup> /L) |
|-------------------------------------------------------|-------------------------------------------|
| Brick, cement stucco, broom finish, exposed aggregate | 200 to 350 (4.9 to 8.6)                   |
| Bridges/Parking Structures/<br>Precast Concrete       | 225 to 350 (5.5 to 8.6)                   |
| Vertical                                              | 250 to 450 (6.1 to 11.0)                  |

## DIRECTIONS

May be applied at 14 to 28 days after concrete installation, or when achieving 75% of design strength, based on mix design, rate of cure and environmental conditions. Surface and ambient temperatures must be a minimum of 20°F (-7°C). Do not apply to frozen or frosted surfaces.

Surface must be clean and free from dirt, dust, laitance, oil, grease, paints, curing or sealing compounds, tilt up bond breakers and other contaminants that would prevent proper penetration.

Extremely dense surfaces such as burnish trowel finished floors may be given a light acid wash to promote adequate penetration.

Protect vegetation from overspray. If spills or overspray occur thoroughly rinse vegetation with water.

Repairs: All cracks and deteriorated surfaces should be repaired prior to application of **Aquanil Plus 100**. Joints and channels should be taped or filled to prevent later adhesion problems. Consult ChemMasters technical service staff for product recommendations.

Mixing: **Aquanil Plus 100** is packaged ready to use and does not require any special mixing.

Application: Apply **Aquanil Plus 100** with a low pressure, solvent resistant, airless sprayer generating 15 psi and equipped with a fan nozzle or use a roller. Follow recommended application rates listed above.

On vertical surfaces, allow 6 inch minimum run down. Maximum run down is 12 inches. Excessive run down or over application can cause discoloration of the substrate.

Horizontal surfaces may be opened to traffic as soon as substrate is dry usually 1 hour at 72°F/22°C with 50% R.H.

## Cleanup

Clean tools and equipment used to apply **Aquanil Plus 100** with **Polyseal solvent**, xylene or mineral spirits before material dries.

## STORAGE

Store **Aquanil Plus 100** in tightly closed containers in cool dry area away from direct sunlight or sources of heat. Shelf life of properly stored material is two years from date of manufacture.

## LIMITATIONS

- **Aquanil Plus 100** may remove special coatings from glass. Test small areas prior to application.
- **Aquanil Plus 100** will "frost" or damage plastic window panes.
- Do not apply when surface or ambient temperature is below 20°F (-7°C) or above 100°F (38°C). Cooler temperatures will extend drying time.
- Do not apply to frozen, frosted, wet or damp surfaces or if rain is expected within 4 hours of application.
- If joints or channels are to be filled at a later date tape or mask prior to application to prevent adhesion problems.
- **Aquanil Plus 100** is a penetrating water repellent designed to reduce the intrusion of water and salts. It is not a waterproofing membrane and thus cannot be expected to bridge cracks or joints in the concrete.
- **All label precautions and the SDS must be fully understood before using this product.** Ensure that you are using the most recent technical data sheet for instructions. Go to [www.chemmasters.net](http://www.chemmasters.net) for the most up to date information or contact ChemMasters at 800.486.7866 to verify.
- Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

## PRECAUTIONS

**For outdoors only. Not for indoor use.**

**WARNING:** Combustible Liquid. May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**Precautionary Statements:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**For professional use only.**

**Keep out of reach of children.**

**See the safety data sheet for hazard information.**

## This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT. We warrant our products to meet our published specifications and to be free from defects in materials and workmanship to the acceptable quality levels defined in these specifications. If acceptable quality levels are not specified, the acceptable quality levels will be those normally supplied by us for the product. We make no guarantee of the results to be obtained from the use of our products. The determination as to the adaptability of any of our products to the specific needs of the Buyer is solely Buyer's prerogative and responsibility. We are glad to offer suggestions on the use of our products. Nevertheless, there are no warranties given except such expresses warranties offered in connection with the sale of a particular product. Our liability shall be limited to replacement of, or refund of an amount not to exceed the purchase price attributed to, the goods as to which such claim is made. Our selection of one of these alternatives shall be Buyer's exclusive remedy. IN NO CASE SHALL WE BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, CO-CONDITIONS AND REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER ARISING UNDER ANY STATUTE, COMMON LAW, USAGE OR TRADE, COURSE OF DEALING OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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