



# ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

# AQUANIL PLUS 40

PENETRATING SILANE SEALER  
FOR CONCRETE AND MASONRY

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

### DESCRIPTION

Aquanil Plus 40 is a penetrating, chemically reactive alkyltrialkoxo, 40% solids, solvent based silane sealer to repel moisture and water from concrete and masonry.

### 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

- Prevents chloride ion penetration from deicing chemicals, acid precipitation or salt air and water in marine environments. Prevents corrosion of the reinforcing steel resulting from chloride exposure.
- Eliminates spalling of new concrete surfaces due to freeze - thaw cycling
- Chemically reacts with concrete and masonry components for long lasting protection.
- Penetrated deeply. The size of the silane molecule allows a greater penetration than siloxane type water repellents.
- Seals pores and capillaries of substrate preventing liquid absorption while allowing excellent vapor transmission
- Does not alter the appearance or texture of substrate

### TECHNICAL DATA

V.O.C Content <500 gm/L

- Complies with National Volatile Organic Compound Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59

Aquanil Plus 40 has been tested for the following performance standards:

Test	Control (% Reduction)	Aquanil Plus 40 (% Reduction)
Weight Gain NCHRP 244	0	85.0%
Chloride Ion Content NCHRP 244 Northern Exposure	0	88.0%
Southern Exposure	0	97.0%
Water Repellency- Wind Driven Rain Conditions ASTM E-514		100% Reduction
Scaling Resistance ASTM C-672	—	Passes
Appearance:		Clear
Absorption ASTM C642	95% reduction in 24 hrs vs control	
Water Vapor Transmission ASTM E96	8% reduced rate vs control	
Weathering ASTM G53	< 5% loss of repellency in 2,400 hrs	
Drying Time:	@ 70°F./21°C.	24 hours
	@ 50°F./10°C.	48 hours
Solids	40%	
Flash Point:	>105°F	>40°C
Permeability ASTM D1653	> 85% breathability vs control	

### ESTIMATING GUIDE

Coverage is dependent upon surface texture and porosity.

	Ft. <sup>2</sup> /gal	M <sup>2</sup> /L
Brick	100-150	2.5-3.7
Cement Stucco	100-150	2.5-3.7
Concrete	100-150	2.5-3.7
Exposed Aggregate	100-150	2.5-3.7
Precast	125-150	3.0-3.7

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## ChemMasters

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## PACKAGING

Aquanil Plus 40 is packaged in 5 U.S. gallon metal pails, shipped 36 per pallet and 55 U.S. gallon drums.

## DIRECTIONS

**SURFACE PREPARATION:** For best results, substrates to be sealed must be a minimum of twenty-eight days old and/or fully cured. Surface and ambient temperatures must be a minimum of 40°F./4°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 or other contaminants which would prevent proper penetration.

Extremely dense surfaces such as burnish trowelled floors or hard fired masonry units may be given a light acid wash to promote adequate penetration.

Protect vegetation and any metal or glass adjoining substrate from overspray. If spills or overspray occur, wipe hard surfaces immediately with a cloth and mineral spirits. Thoroughly rinse vegetation with water.

**REPAIRS:** All cracks and deteriorated surfaces should be repaired prior to application of Aquanil Plus 40. Joints and channels should be taped or filled to prevent later adhesion problems. Consult ChemMasters technical service staff for product recommendations.

**MIXING:** Aquanil Plus 40 is packaged ready to use and does not require any special mixing.

**APPLICATION:** Apply Aquanil Plus 40 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 a 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 40 with Polyseal solvent, xylene or mineral spirits before material dries.

## STORAGE

Store Aquanil Plus 40 in tightly closed containers in cool, dry area away from direct sunlight or sources of heat. Shelf life of properly stored material is one year from date of manufacture.

## LIMITATIONS

- Do not apply when surface or ambient temperature is below 40°F./4°C. or above 100°F./38°C.
- Do not apply to 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 40 is a penetrating sealer 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 MSDS must be fully understood before using this product.

### ***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.*