



ChemMasters

AQUANIL PLUS 55

PENETRATING SILANE SEALER
FOR CONCRETE AND MASONRY

SPECIALTY CONSTRUCTION PRODUCTS

P R O D U C T D A T A

DESCRIPTION

Aquanil Plus 55 is a penetrating, chemically reactive alkyltrialkoxo, 55% 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.
- Reduces spalling of new concrete surfaces due to freeze - thaw cycling
- Chemically reacts with concrete and masonry components for long lasting protection.
- Penetrates 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

AQUANIL PLUS 55 HAS BEEN TESTED FOR THE FOLLOWING PERFORMANCE STANDARDS:

WEIGHT GAIN		
NCHRP 244	% Reduction vs control	85.0%

CHLORIDE ION CONTENT		
NCHRP 244		
No. Exposure	% Reduction vs control	88.0%
So. Exposure	% Reduction vs control	97.0%

WATER REPELLENCY- WIND DRIVEN RAIN CONDITIONS		
ASTM E-514		100% Reduction

SCALING RESISTANCE		
ASTM C-672		Passes

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		55%
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FLASH POINT		53°F (10°C)
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PERMEABILITY		
ASTM D1653	> 85% breathability vs control	

V.O.C CONTENT		382 gm/L
Complies with National Volatile Organic Compound Emission Standards for Architectural Coatings, Federal EPA Regulation 40 CFR Part 59		



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An American Owned & Operated Company
300 EDWARDS STREET • MADISON, OHIO 44057-3112
(440) 428-2105 • FAX (440) 428-7091 • ORDER LINE: (800) 486-7866 * www.chemmasters.net

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ESTIMATING GUIDE

Coverage is dependent upon surface texture and porosity.

	Ft. ² /gal	M ² /L
Brick	150-200	3.7-4.9
Cement Stucco	150-200	3.7-4.9
Concrete	150-200	3.7-4.9
Exposed Aggregate	150-200	3.7-4.9
Precast	175-200	4.3-4.9

PACKAGING

Aquanil Plus 55 is packaged in 5 U.S. gallon (18.9 Liter) metal pails and 55 U.S. gallon (207.9 Liter) 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 55**. Joints and channels should be taped or filled to prevent later adhesion problems. Consult ChemMasters technical service staff for product recommendations.

MIXING: **Aquanil Plus 55** is packaged ready to use and does not require any special mixing.

APPLICATION: Apply **Aquanil Plus 55** 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 55 with **Polyseal Solvent**, xylene or mineral spirits before material dries.

STORAGE

Store **Aquanil Plus 55** 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

- 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 55** 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.

Make certain that the most current versions of the product data sheet and MSDS are being used. Go to www.chemmasters.net or contact ChemMasters customer service at 1.800.486.7866 to verify the most current version.

Proper application is the responsibility of the user. ChemMasters can only make technical recommendations and cannot provide quality control on the jobsite.

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 express 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.