

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 alkyltrialkoxysilane 55% solids, solvent based silane sealer that repels moisture and water from concrete and masonry. Aquanil Plus 55 is non-etching, will not harm most uncoated glass, metal frames, or painted surfaces and leaves no residue to clean. Aquanil Plus 55 is formulated to exceed National Volatile Organic Compounds (VOC) Emission Standards for Architectural Coatings Federal EPA Regulation 40 CFR Part 59 < 600 g/L.

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

Packaging / Part Number			
5 gal/ 18.9L	36/pallet	F.3335.05	
55 gal/208L	4/pallet	F.3335.55	

TECHNICAL DATA

Exceeds National VOC Emission Standards for Architectural Coatings 40 CFR Part 59 < 600 g/L and meets the requirements of Lake Michigan Air Directors Consortium (LADCO) and Ozone Transport Commission (OTC) < 400 g/L.

NCHRP 244 Test Data				
	Control % reduction	Aquanil Plus 40 % reduction		
Weight Gain	0	85		
Chloride Ion Content Northern Exposure Southern Exposure	0 0	88 97		

Test Data	
ASTM E 514 Water Repellency Wind Driven Rain Conditions	100 % reduction
ASTM C 672 Scaling Resistance	Passes
ASTM C 642 Absorption	95% red'n 24 hrs
ASTM E 96 Water Vapor Transmission	8% reduced rate vs control
ASTM G 53 Weathering 2,400 hours	< 5% loss of repellency
ASTM D 1653 Permeability	> 85% breathability vs control
Appearance	Clear
VOC Content	<400 g/L
Drying Time	2 to 4 hrs
Reaction Time @ 50% R.H. 70°F (21°C) 50°F (10°C)	24 hrs 48 hrs
Solids	50 to 60%
Flash Point	105°F (41°C)



Estimating Guide			
Surface	ft²/ gal (m²/L)		
Brick	150 to 200 (3.7 to 4.9)		
Cement Stucco	150 to 200 (3.7 to 4.9)		
Concrete	150 to 200 (3.7 to 4.9)		
Exposed Aggregate	150 to 200 (3.7 to 4.9)		
Precast	175 to 200 (4.3 to 4.9)		

DIRECTIONS

Surface Preparation: For best results substrate must be a minimum of 28 days old or fully cured. Surface and ambient temperatures must be a minimum of 40°F (4°C). D o 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 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 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 5 0% 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.

CAUTIONS

Combustible Liquid: Keep away from heat or open flame. Use with adequate ventilation. May cause skin, eye, and respiratory tract irritation. See Safety Data Sheet for details.

Keep out of the reach of children.

LIMITATIONS

- Aquanil Plus 55 may remove special coatings from glass. Test small areas prior to application.
- Aquanil Plus 55 will "frost" or damage plastic window panes.
- Do not apply when surface or ambient temperature is below 40 F (4 $^{\circ}$ C) or above 100 F (38 $^{\circ}$ 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 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 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.

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

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