

KL-17

WATER REPELLANT FOR BRICK, MASONRY AND CONCRETE SPECIFICATIONS

PRODUCT NAME

KL-17, Water repellent for masonry and concrete surfaces.

MANUFACTURER

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DESCRIPTION

KL-17 is a clear, penetrating water repellent for masonry, concrete, brick and block surfaces, above grade. KL-17 creates an integral crystalline barrier within the surface that prevents water and moisture penetration yet allows the surface to breathe.

KL-17 keeps vertical surfaces dry, thereby preventing water intrusion, surface deterioration, stain damage, and efflorescence. It is resistant to fungi and mildew.

KL-17 is suitable for brick, block and masonry walls, for capstones and chimneys, for concrete slabs, stucco surfaces, and for driveways, steps, patios, and sidewalks.

For use on foundation walls, it can be applied on all interior walls and above grade on exterior walls.

KL-17 is water-based and non-flammable. It is compatible with most caulking and over-lay materials such as paint, stucco, tile, carpet and vinyl flooring.

COMPOSITION

KL-17 is non-flammable solution of sodium methyl silicate and water. It is supplied in a concentrated solution, not exceeding 10% solids.

When the treatment is applied, the solution penetrates the surface and the carrier evaporates. The remaining silicates combine with moisture and carbon dioxide in the air, forming crystals and becoming an integral part of the treated area.

LIMITATIONS

Apply in temperatures above 4.5 degrees Celsius (40 degrees Fahrenheit). Do not allow this product to freeze. Allow new concrete to cure and remain dry 14 days.

KL-17 overspray on metal, glass, wood, or any other non-porous surface is not harmful but will leave a residue that may be difficult to remove.

INSTALLATION

Preparation:

Before application of KL-17, all surfaces must be sound, clean, dry and cured a minimum of 14 days. All existing surface dirt, chemical films, paint, oil, tar, grease and stains should be removed from the surface. KL-17 must be able to penetrate the surface thoroughly.

Application:

Mix one part KL-17 to three parts water and apply with a low-pressure sprayer. On walls, start spraying at the top. Saturate the surface as much as possible without causing run-down or puddling. If puddling occurs, remove by spreading with a brush before KL-17 dries.

Coverage rate will be up to 3.7 square meters per mixed litre (150 square ft. per mixed gallon) depending on surface porosity and density. Apply one coat only; the surface will not absorb a second coat once the material is dry. To ensure effective results, always test KL-17 on a small sample area.

Clean tools with mild soap and water.

Allow KL-17 to dry 24 hours prior to coating with paint, stucco, tile, flooring or other overlay materials.

Danger:

Keep out of the reach of children. Direct contact with eyes may cause injury or blindness. Direct contact with skin, mouth, throat, or digestive system may cause burns to those areas. Inhalation of mist or spray may irritate nose, throat and lungs. If contact with eyes or skin occurs, flush immediately with water for at least 15 minutes and obtain prompt medical attention. If inhaled, remove to fresh air and get medical attention if effects persist. If swallowed, get immediate medical attention; do not induce vomiting. See the Material Safety Data Sheet (MSDS) for details.

TECHNICAL DATA

Percent Solids (concentrated form) +	Not to Exceed 10%
Composition	Water Diluted Solution of Sodium Methyl Silicate.
Colour	Clear Upon Application
Flash Point	None
Weight	2.4 lbs./32 oz. +/- .5
Penetration	1/8" – 5/16" depending upon substrate
PH	10.5 – 12.5 +/- .5
V.O.C. (Volatile Organic Compound)	-0-
Surface Appearance After Application	Unchanged
Dry Time	24 hours
Breathability	Greater than 50%
Water Repellancy Test (ASTM C-67).	.49% maximum absorption on brick substrate
Water Permeance Test (ASTM E-514 modified)	% Reduction of Leakage
Block Wall	99.5% @ 15 mph, 88.0% @ 60 mph
Brick Wall	99.5% @ 15 mph, 99.5% @ 60 mph
Tested according to U.S. Federal Specification SS-W-110C.	

Life Expectancy	Lightweight Concrete Block	5-6 years
	Conventional Concrete Block	6-7 years
	Monolithic Concrete/Autoclave block	7-8 years
	Porous Brick	9 years

+ KL-17's unique composition requires an application concentration not higher than 3 percent solids unless testing indicates a necessity. The use of higher than required concentrations may result in the formation of a white residue on the surface that could be difficult to remove.

PACKAGING

KL-17 is available in concentrated form in either 1 litre (32 oz.) containers, 3.8 litre (one gallon), 19 litre (five gallon) or 209 litre (55 gallon) drums. One part concentrate is mixed with three parts water to obtain ready-to-use material.

For pricing information, contact the nearest distributor or the manufacturer.

Storage:

Do not allow product to freeze.

MAINTENANCE

Not required.

TECHNICAL ASSISTANCE

Technical assistance and information are available from any Advanced Coatings Inc. distributor or dealer, or you may write to the manufacturer.