

SIL-ACT® Product Data

ATS-100 LV

LEED Compliant

Alkyltrialkoxysilane



ADVANCED
CHEMICAL
TECHNOLOGIES, Inc.

"Protecting the World's Infrastructure"

LOW VOC CONTENT

Advanced Chemical Technologies has been at the forefront of developing environmentally friendly silane based protective products for concrete, masonry and natural stone structures. **SIL-ACT® ATS-100 LV** is the latest development in this family of water repellent solutions. At less than 250 g/L, it is the lowest VOC content 100% silane product on the market, while maintaining the same water repellent characteristics our customers have come to expect. **SIL-ACT® ATS-100 LV** remains easy to apply and has almost no odor.

PERFORMANCE & DURABILITY

SIL-ACT® ATS-100 LV is a clear, penetrating silane treatment which causes concrete, masonry and natural stone structures to become repellent to water, chloride, ions and waterborne contaminants, preventing their premature deterioration.

SIL-ACT® ATS-100 LV forms a chemical bond which will last until the penetrated depth is abraded away. While the surface of the substrate is water repellent, it remains permeable, allowing harmful water vapor in the substrate to escape. This is the difference between **SIL-ACT® ATS-100 LV** and film forming water proofing products.

BENEFITS

Low odor – making it an ideal water repellent for use in hospitals, retirement facilities, sports arenas, schools, parking structures; anywhere odor may be of concern.

Flexible – it is an effective treatment for new and existing concrete, masonry and many natural stones.

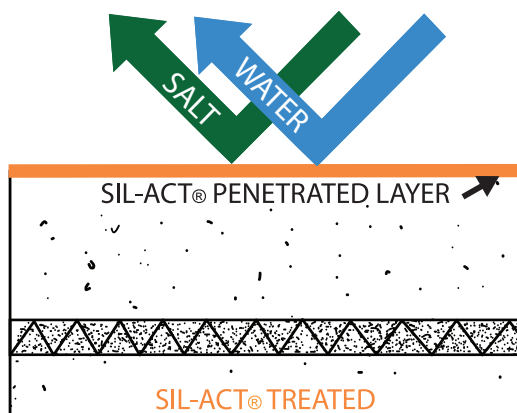
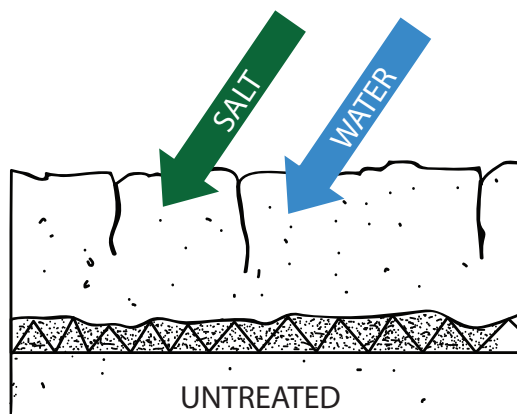
Does not change the appearance, skid resistance or permeability of the substrate (however, a test patch is always recommended).

Easy to apply – it can be applied to the substrate surface by low-pressure spray, brush, roller or squeegee. No masking of windows required.

ATS-100LV is
**LOW
Odor &
VOC Content**

STOPS
WATER
CHLORIDE
WATERBORNE
CONTAMINANTS

PERFORMANCE TESTED!



SIL-ACT®'s penetrated silane treatment layer stops water and salt intrusion into concrete, brick, masonry and many types of stone without affecting natural vapor permeability.

TECHNICAL DATA

PROPERTY	TEST	ATS-100 LV
Active Ingredient		Alkyltrialkoxysilane
Specific Gravity	Method 24, ASTM D-5095	~ 0.90
Density		7.54 lb/gal
Active Content		100% active
VOC Content		< 250 g/L (LEEDS compliant)
Appearance		Clear
Surface Appearance after Application		Unchanged
Drying time at 70°F		1 hour
Moisture Absorption Reduction	ASTM C-642	92% at 24 hours
Vapor Transmission	Alberta Transportation and Utilities (1c)	86.6%
Waterproofing After Abrasion	Alberta Transportation and Utilities (1c)	85.8%
Alkali Resistance	Alberta Transportation and Utilities (1c)	84.3%
Reduction in Absorbed Chloride	NCHRP 244 Series II	84%
	NCHRP 244 Series IV - Southern Climate	98%
Freeze-Thaw Scaling Resistance	ASTM C-672	0 at 50 cycles
Chloride Ion Penetration	AASHTO T-259/T-260	0.014 @ 1/2-inch depth 0.010% @ 1-inch depth
Chloride Reduction	AASHTO T-259/T-260	94.3% @ 1/2-inch depth 92.7% @ 1-inch depth

INSTRUCTIONS

- Test a small area prior to general application to ensure compatibility, desired results and coverage rates.
- Treatment is most effective when the surface to be treated is clean and dry. Remove dirt, dust, oil, grease, curing compounds, coatings and other surface contaminants. Water blasting, sandblasting or shotblasting may be required.
- Please refer to Advanced Chemical Technologies' CleanACT® line of concrete and masonry detergents and cleaners.
- Do not proceed unless surface and air temperature is between 20°F and 110°F. Do not apply if frost, ice, or standing water are visible on the surface to be treated.
- Windows, metals, etc. are not affected by SIL-ACT® ATS-100 LV. No masking of windows required. However avoid unnecessary overspray. If necessary, clean overspray areas with a clean dry cloth, soap and water or alcohol. Protect plants and vegetation from overspray. Prior to SIL-ACT® ATS-100 LV installation check for preexisting contamination.
- Spray, brush or roll SIL-ACT® ATS-100 LV treatment on surface to be treated at the recommended application rate. See equipment section of this catalog or contact your Advanced Chemical Technologies rep for spray equipment options.
- Apply to saturation. When spraying at low pressure, if necessary follow with broom or squeegee for even distribution.
- Normal coverage rate is approximately 125 - 400 square feet per gallon. Coverage rates may vary depending on the porosity of the substrate to be treated.
- Clean equipment with SIL-ACT® Equipment Cleaner.
- Partially used containers should be properly sealed and protected from contamination by water or other foreign substances.

WARRANTY

Limited warranties are available for all SIL-ACT® products. Contact ACT or your local SIL-ACT® representative for details.

SIL-ACT® ATS-100 LV is covered by several patents including U.S. 4,931,319

NOTICE: This brochure was prepared as an introduction to a product manufactured by Advanced Chemical Technologies, Inc. The information provided herein is based upon typical installation conditions and is believed to be reliable. However, due to the wide variety of possible intervening factors, Advanced Chemical Technologies, Inc. does not warrant the expected results to be obtained. Details concerning product specifications and warranty may be obtained from Advanced Chemical Technologies, Inc. Specifications are subject to change. Sale of subject system is limited to Advanced Chemical Technologies, Inc. and authorized applicator's conditions of sale including those limiting warranties and remedies.

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