

SIL-ACT® Product Data

ATS-40 VOC

LEED Compliant

Alkyltrialkoxysilane



ADVANCED
CHEMICAL
TECHNOLOGIES, Inc.

"Protecting the World's Infrastructure"

HIGH PERFORMANCE

SIL-ACT® ATS-40 VOC is a clear, penetrating silane treatment which causes concrete, masonry and many natural stones to become repellent to water, chloride, waterborne contaminants and weathering elements, preventing the premature deterioration of parking decks, bridge decks, pavements and other types of concrete and masonry structures. Performance testing makes SIL-ACT® ATS-40 VOC an excellent choice for any project requiring the highest quality clear penetrating water repellent.

DURABLE

SIL-ACT® ATS-40 VOC can be applied to the surface by low-pressure spray, brush, roller or squeegee. It can be stored on the jobsite at temperature extremes, eliminating storage problems associated with emulsified silane products that can deteriorate on the jobsite, prior to use, if not properly stored. SIL-ACT® ATS-40 VOC chemically bonds with the substrate forming a penetrated layer below the surface that acts as a one-way filter. Water, chloride and other waterborne contaminants are repelled without restricting the substrates natural vapor permeability.

FLEXIBLE

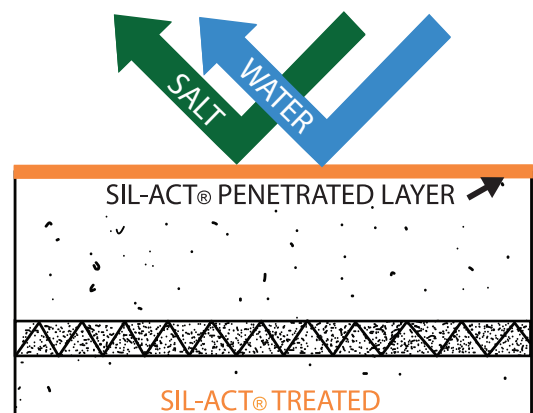
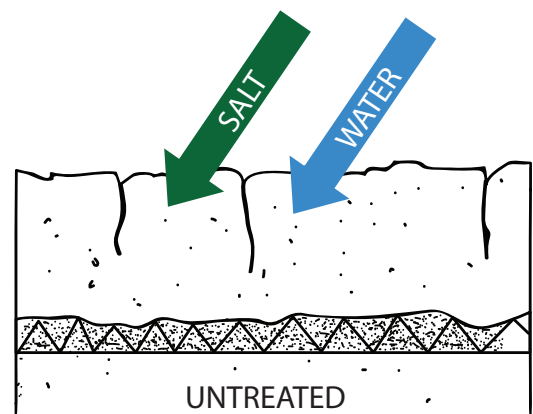
SIL-ACT® ATS-40 VOC is an effective treatment for brick, masonry, cementitious mortars, stucco, many natural stones and cast-in-place, precast, prestressed and architectural concretes.

Structures that can be treated include:

- Parking decks
- Bridges
- Commercial buildings
- Airport pavements
- Highways
- Median Barriers
- Stadiums
- Other horizontal and vertical structures
- Precast concrete
- Brick walls

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-40 VOC
Active Ingredient		Alkyltrialkoxysilane
Specific Gravity	Method 24, ASTM D-5095	0.92
Density		7.68 lb/gal
VOC Content		< 400 g/L
Appearance		Clear
Surface Appearance after Application		Unchanged
Drying time at 70°F		30 minutes
Absorption Reduction	ASTM C-642	93% @ 48 hours
Chloride Reduction	AASHTO T259/T260	90.6% @ 0.5 in. 87.7% @ 1.0 in.
Scaling	ASTM C-672	0 @ 50 cycles
Chloride Reduction	NCHRP 244 Series II	91.6% @ 5 days air dry
Water Absorption	NCHRP 244 Series II	90.5% @ 5 days air dry
Chloride Reduction	NCHRP 244 Series IV	90%
Typical performance properties tested in house		

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, Inc.'s 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-40 VOC. No masking of windows is required. However, windows should be clean prior to application and avoid unnecessary overspray. Clean overspray areas with a dry cloth or alcohol. Protect plants and vegetation from overspray. Prior to SIL-ACT® ATS-40 VOC application, check for preexisting contamination.
- Spray, brush or roll SIL-ACT® ATS-40 VOC treatment on surface to be treated at the recommended application rate. 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.
- Coverage rate is approximately **125 - 250 square feet per gallon**. Coverage rates will vary greatly with the porosity of substrate.
- 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.

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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Technical Binder

