SIL-ACT® Product Data

DECK-SIL® PS 1700

LEED Compliant

Alkyltrialkoxysilane



"Protecting the World's Infrastructure"

DECK-SIL® Product for Use under U.S. Patent No. 9,242,269

HIGH PERFORMANCE

DECK-SIL® PS 1700 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 **DECK-SIL® PS 1700** an excellent choice for any project requiring the highest quality clear penetrating water repellent.

DURABLE

DECK-SIL® PS 1700 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. **DECK-SIL® PS 1700** 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

DECK-SIL® PS 1700 is an effective treatment for brick, masonry, cementious mortars, stucco, many natural stones and cast-in-place, precast, prestressed and architectural concretes.

Structures that can be treated include:

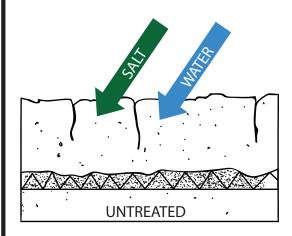
- Parking decks
- Bridges
- Commercial buildings
- Airport pavements
- Highways
- No masking of windows required
- Median Bariers
- Stadiums
- Other horizontal and vertical structures
- Precast concrete
- · Brick walls

STOPS

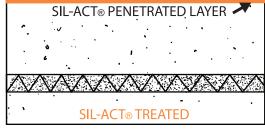
WATER

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	PS 1700
Active Ingredient		Alkyltrialkoxysilane
Specific Gravity	Method 24, ASTM D-5095	0.92
Density		7.68 lb/gal
Active Content		100% active
VOC Content		< 350 g/L
Appearance		Clear
Surface Appearance after Application		Unchanged
Drying time at 70°F		1 hour
Moisture Absorption Reduction	ASTM C-642-82	0.3% 48 hours 0.8% 50 days
Moisture Vapor Permeability	OHD L-35	100%
Depth of Penetration	OHD L-34 / NCHRP 244 Series II	0.4 in - 0.6 in
Waterproofing after Abrasion	Alberta Transp. & Utilities (1c)	85.6%
Alkali Resistance	Alberta Transp. & Utilities (1c)	84.2%
Reduction in Water Weight Gain	NCHRP 244 Series II	88%
Reduction in Absorbed Chloride	NCHRP 244 Series II	89%
	NCHRP 244 Series IV - Southern Climate	99%
Moisture Vapor Permeability	NCHRP 244 Series II	100%
Vapor Transmission	Alberta Transp. & Utilities (1c)	85.7%
Chloride Penetration - Chloroide Ion Content (applied at 250 ft²/gallon/one coat)	AASHTO T 259/260	0.008% @ 1/2" depth 0.005% @ 1" depth
% Chloride Reduction % (applied at 250 ft²/gallon/one coat)	AASHTO T 259/260	96.7% @ 1/2" depth 96.4% @ 1" 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 Technology'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.
- Use a spray bar to apply DECK-SIL® PS 1700 treatment on surface to be treated. See equipment section of this catalog or contact Advanced Chemical Technologies, Inc. for spray equipment options.
- Apply to saturation. When spraying at low pressure, if necessary follow with broom or squeegee for even distribution.
- 7. Coverage rate is approximately 100 square feet per gallon. Always apply a test area to determine coverage rate. Coverage rates may vary greatly with the porosity of substrate.
- 8. 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.

 ${\sf DECK\text{-}SIL\ Product\ for\ Use\ under\ U.S.\ Patent\ No.\ 9,242,269}$

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.

