

Decktite WDS™

Water Dispersed Silane Sealer

FEATURES

Creates Water repellent Masonry Substrate

Not a film forming coating

Water dispersed

Specialized application equipment

BENEFITS

- Minimizes penetration of de-icing salts into concrete
- Deters growth of fungus and algae on concrete

- Does not trap moisture in concrete

- VOC compliant

- No mixing
- Easy handling

DESCRIPTION

Decktite WDS™ is a VOC compliant Alkyltrialkoxysilane concentrate. When properly dispersed in water, the resulting concrete surface becomes hydrophobic and repels moisture absorption.

BASIC USES

Decktite WDS is a water dispersed, low odor, penetrating concrete sealer. Using a unique nozzle mixing system which allows for metered spray application of the silane to the surface, the pressurized spray delivers a fully catalyzed reactive material to the surface to be treated. The metered pressurized spray fully saturates the surface and then soaks into the microscopic pores converting the surface into a water repellent layer. Upon mixing Decktite WDS with water, it must be applied immediately since it remains active for less than 20 seconds. The Decktite custom spray equipment is required for proper application.

This chemical treatment provides an almost instantaneous reaction with the concrete or masonry surface. This is a distinct advantage since most sealers lose a great deal of active ingredients as well as solvents to evaporation. The WDS sealer delivers more active silane into the concrete to form a water repellent layer. This protective layer greatly reduces the migration of water and deicing salts which cause deterioration of reinforcing steel, scaling and efflorescence.

Because WDS forms a protective layer which is chemically bonded to the concrete surface, it is not affected by surface temperature, rainfall or ultraviolet light.

PACKAGING

Available in 1 gallon (3.78L) containers and 5 gallon (18.9L) containers.

STORAGE LIFE

Two years in unopened containers

SURFACE PREPARATION

All surfaces which are to receive Decktite WDS must be free of dust, dirt, debris, and other surface contaminants. New concrete must cure a minimum of 28 days prior to application. All curing compounds must be completely removed before the application of sealer. Concrete surface must be dry. Shot blasting the concrete is recommended on new concrete decks, and required in restoration work.

Power wash all surfaces prior to application at 800 psi (5,500 kPa) minimum. Allow surfaces to dry 72 hours minimum. Surface must be dry for proper application.

Vertical surfaces must be cleaned of any laitance, dirt, dust, oil, grease, efflorescence, alkali coatings and all other contaminants. Replace any loose, weak or soft mortar and allow 72 hours cure time prior to application.

TYPICAL APPLICATIONS

APPLICATION

COVERAGE RATES

PHYSICAL PROPERTIES

Decktite WDS™

Parking decks (cast in place, precast and post tension), bridges, piers, stadiums, architectural walls such as concrete, brick, masonry facades, stucco and other absorbant natural stones-such as lime-stone and dolomite. Decktite WDS is ideally suited for use in odor sensitive areas which prohibit the use of a solvent based material.

Decktite WDS is applied by specialized metered spray equipment available exclusively from Tremco. Coverage rates will vary with surface com-position, finish and porosity. Protection from over spray is required. Avoid over spray when using near windows, metals, or foliage.

Apply spray in one application until saturation occurs. Surfaces must be uniformly wet during application. Avoid excessive puddling. Broom out all puddle areas. Allow treated surface to fully dry before expo-sure to rain or wet conditions.

After Decktite WDS has dried, water test the treated surface to assure proper application. Allow for at least 24 hours after completing application before water test.

Shot Blast Surfaces

80-150 sq. ft. per gallon (2.0-3.7 m²/liter)

Fine Broom finish

100-125 sq. ft. per gallon (2.5-3.1 m²/liter)

Power trowel or light trowel finish

125-150 sq. ft. per gallon (3.1-3.7 m²/liter)

Vertical

175-250 sq. ft. per gallon (4.3-6.1 m²/liter)

Coverage will vary due to surface

PHYSICAL PROPERTY		DESCRIPTION	
COLOR		Clear Amber	
SOLVENT		None in concentrate, dispersed with water only	
FLASH POINT AS A CONCENTRATE		108° (not applicable when dispersed in water)	
METHOD		Cleveland Closed Cup	
IDEAL STORAGE TEMPERATURE		68°F (34°C)	
PHYSICAL PROPERTY	TEST METHOD	VERTICAL	HORIZONTAL
Dispersion Rate in Water (water: WDS)		9:1	6:1
Dryong Time @ 70°F 50% R.H.		30-50 minutes	30-50 minutes
Solvent		Water	Water
VOC Content* (gm/liter) as a concentrate	ASTM D5095-90	<350	<350
% Reduction in Water Weight Gain	NCHRP 244 Series II	78%	76%
% Reduction in Absorbed Chloride	NCHRP 244 Series II	94%	95%
Water Screening Water Weight Gain	Alberta Transportation Test	91.1%	91.4%
Water Screening After Abrasion	Alberta Transportation Test	87.9%	87.5%
Alkali Resistance After Abrasion	Alberta Transportation Test	89.7%	84.1%
Depth of Penetration	OHD L-34	0.18 in	0.28 in
Moisture Vapor Permeability	NCHRP 244 Series II	100%	100%

*Meets the requirements of SCAQMD, NY City, NJ and Phoenix

Decktite WDS™

CLEAN UP

Flush equipment with Decktite WDS Equipment Cleaner or isopropyl alcohol immediately. **DO NOT** use water to clean Decktite WDS concentrate reservoir, since gelling/crystallization may occur.

MAINTENANCE

Your local Tremco Roofing sales representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

TECHNICAL SUPPORT

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



www.tremcoroofing.com
3735 Green Road
Beachwood, Ohio 44122
1.800.852.6013

50 Beth Nealson Drive
Toronto, Ontario M4H 1M6
1.800.668.9879

Tremco Roofing & Building
Maintenance is a part of the Tremco
Construction Products Group

Tremco is a US Registered trademark of Tremco Incorporated.
The information provided on this data page supersedes all previous data concerning this product and its application.
The Statements provided concerning the materials shown are intended solely as a general guide for material usage and are believed to be true and accurate. Since the manner of use is beyond our control, Tremco DOES NOT MAKE NOR DOES IT AUTHORIZE ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE, OR ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION, EXPRESSED OR IMPLIED, CONCERNING THIS MATERIAL EXCEPT THAT IT CONFORMS TO TREMCO'S PRODUCT SAMPLE. Buyer and user accept the product under those conditions and assume the risk of any failure, injury of person or property and loss or liability resulting from the handling, storage or use of the product, whether or not it is handled, stored, used in accordance with directions or specifications. UNDER NO CIRCUMSTANCE SHALL TREMCO BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM ANY BREACH OF WARRANTY. IN ALL CASES, TREMCO'S LIABILITY IS LIMITED, AT TREMCO'S OPTION, TO THE REPLACEMENT OF GOODS, OR THEIR VALUE, PROVEN TO BE DEFECTIVE IN MANUFACTURING.