

DECKTITE™ WDS

Water Dispersed Silane Sealer

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

Basic Use: 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.

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

Product Advantages	
Features	Benefits
<ul style="list-style-type: none"> Creates water repellent masonry substrate 	<ul style="list-style-type: none"> Minimizes penetration of de-icing salts into concrete Deters growth of fungus and algae on concrete
<ul style="list-style-type: none"> Not a film forming coating 	<ul style="list-style-type: none"> Does not trap moisture in concrete
<ul style="list-style-type: none"> Water dispersed 	<ul style="list-style-type: none"> VOC compliant
<ul style="list-style-type: none"> Specialized application equipment 	<ul style="list-style-type: none"> No mixing Easy handling

Limitations:

- Not intended for glazed brick, glazed tile, slate, granite, or polished marble.
- Not to be applied over previously sealed concrete without securing manufacturer's prior written instructions and approval.
- Not applied below 40°F or above 110°F
- Do not apply when rain is imminent or when treated surface will not fully dry prior to rain.
- Protect plants, windows, and metal from overspray
- Not to be applied to wet, frost covered, or frozen substrates.
- Not for use in submerged or below grade applications.

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.

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

Application: Decktite WDS is applied by specialized metered spray equipment available exclusively from Tremco. Coverage rates will vary with surface composition, 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 exposure 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.

Coverage Rates for WDS Dispersion:

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.

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.

Precautions: Use with adequate ventilation and personal protection. Read container label and Material Safety Data Sheet prior to use.

Warranty: Tremco, Inc. warrants Decktite WDS to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, we will provide, at no charge, product in containers to replace any product proved to be defective when applied, tested and cured in accordance with our written instructions, and in applications recommended by us as suitable for this product. THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY.

User shall determine suitability of the product for this intended use and assume all risk and liability therewith. Seller shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product.

All claims concerning product defects must be made within twelve (12) months of shipment. Absence of such claims in writing, during this period, will constitute a waiver of all claims with respect to such product. This warranty SHALL BE IN LIEU OF any and all other warranties, express or implied including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Technical Services: Your local Tremco representative, in conjunction with the Tremco Technical Services Department, offers a unique problem-solving capability. This includes assistance through the development and specification stage as well as providing on site application instruction and inspections when requested. Their services are fully supported by the Tremco Research & Development Center, which has earned a unique reputation in Roofing, Sealants, and Coatings Technology. From concept to job completion, your Tremco Roofing and Building Maintenance Representative is available for your assistance.

Typical Physical Data

Color: Clear Amber
Solvent: None in concentrate, dispersed with water only
Flash point as a concentrate: 108° (flash point not applicable when dispersed in water)

Method : Cleveland Closed Cup

Property	Technical Data		
	Test Standard	Vertical Application	Horizontal Application
Dispersion Rate (water : WDS)in Water		9:1	6:1
Drying 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 Test	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 inches	0.28 inches
Moisture Vapor Permeability	NCHRP 244 Series II	100%	100%

†Meets the requirements of SCAQMD, NY City, NJ and Phoenix.

Statement of Policy and Responsibility: Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.

As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

TREMCO

An RPM Company

3735 Green Road
 Beachwood, OH 44122
 216-292-5000

220 Wicksteed Ave
 Toronto, ONT M4H 1G7
 416-421-3300

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