



**Protective
&
Marine
Coatings**

D.O.T. CONCRETE SEALER

B97W10
B97T14

WHITE
ULTRA DEEP BASE

Revised: November 3, 2016

PRODUCT INFORMATION

PRODUCT DESCRIPTION

D.O.T. CONCRETE SEALER is an opaque, silicone acrylic sealer, formulated to bond with concrete or masonry surfaces to provide outstanding penetration, chloride intrusion protection and color retention. The opaque nature of this product hides surface imperfections while providing a waterproofing barrier. The thermo-plastic nature of the resin allows for superior graffiti maintenance.

- Prior product reference 10.00 Series.

PRODUCT CHARACTERISTICS

Finish:	Satin
Color:	White, and tinted colors
Volume Solids:	34% ± 2%*
Weight Solids:	51% ± 2%*
VOC :	568 g/L; 4.74 lb/gal*

* May vary depending on color

Vehicle Type: Silicone Acrylic

Recommended Spreading Rate per coat:

~Coverage sq ft/gal: **360** **470**

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 77°F @ 50% RH:

To touch: 15 minutes
To recoat: 3 hours
Drying time is temperature, humidity, and film thickness dependent.

Shelf Life:	36 months, unopened at 77°F
Flast Point:	80°F, PMCC
Reducer/Clean Up:	Xylene

RECOMMENDED USES

Use on Bridges or Bridge Structures, Sound Walls, Concrete Medians, or Slope Paving.

- Low film build will maintain architectural details
- Bonds with the surface
- Will not peel or flake

PERFORMANCE CHARACTERISTICS

Substrate*: Concrete

Surface Preparation*: Clean, dry, sound

System Tested*:

2 cts. D.O.T. Concrete Sealer @ 180-235 sq ft/gal average

*unless otherwise noted below

Test Name	Test Method	Results
Accelerated Weathering	ASTM D5894, 5000 hours < 3 DE color change	Pass
Adhesion to Concrete	ASTM D4541	675 psi min.
Chloride Penetration	ASTM T-259-T-260	3.9 PPM @ 13/MM 1.6 PPM @ 25/MM
Freeze-Thaw Test	Sherwin-Williams	Pass, 10 cycles
Fungus Growth Resistance	TT-C-555B Table II Test Method B	No fungus growth
Salt Spray Resistance	NCHRP 244, Report, Series II; ASTM G-85, 5000 hours	Pass; No effect
Water Vapor Transmission	ASTM D1653 Method A	0.6 grains/sq ft/hour 10.8 grams/sq meter/24 hours
Wind Driven Rain	TT-P-555B	No visible water leaks; 0.0 oz. weight gain

Applicable Standards:

D.O.T. Concrete Sealer meets or exceeds Federal Standard TT-C-555B, SS-W-110C, and ASTM D 1653.



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RECOMMENDED SYSTEMS

Testing: Due to the wide variety of substrates, preparation methods, application methods and environments, the customer should test the product in an inconspicuous spot for adhesion and compatibility prior to full scale application.

Concrete/Masonry, smooth surface:

2 cts. D.O.T. Concrete Sealer @ 180 - 235 sq ft per gal. avg.

For a complete waterproof system on pourous masonry surfaces, apply 1 flood coat of SW-244 series penetrating sealer, then 2 coats of D.O.T. Concrete Sealer.

For best waterproofing protection on vertical concrete and masonry, patch and repair cracks and crevices where water can enter. Use Conseal, or D.O.T. approved sealants and patches. Test D.O.T. approved products for compatibility prior to application.

For Graffiti Maintenance, apply one or two coats of D.O.T. Concrete Sealer over graffiti with spray can, hudson sprayer, brush, roller, or other approved method. Most Sherwin-Williams Industrial Maintenance facilities can fill existing color batches into spray cans.

Note: D.O.T. Concrete Sealer must be applied directly to substrate, or over H&C HB-100 or HB-150, prior to graffiti, for the system to perform properly.

Maintenance:

D.O.T. Concrete Sealer's surface is easily cleaned using Proclean Extra-Strength Cleaner / Degreaser.

The systems listed above are representative of the product's use, other systems may be appropriate.

DISCLAIMER

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SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Concrete and Masonry: Cured, clean, dry, sound

Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	C St 3	C St 3	SP 3	-
Pitted & Rusted	D St 3	D St 3	SP 3	-

TINTING

Hint: Up to 4 oz/gal of Maxitoner colorants

Color: Wide range of colors available

APPLICATION CONDITIONS

Temperature: 35°F minimum, 100°F maximum (air, surface, and material)
At least 5°F above dew point

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging: 5 and 55 gallon containers

Weight per gallon: 9.7 ± 2% lb (may vary by color)

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



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APPLICATION BULLETIN

SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Testing: Due to the wide variety of substrates, preparation methods, application methods and environments, the customer should test the product in an inconspicuous spot for adhesion and compatibility prior to full scale application.

Concrete and Masonry

Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days at 75°F. Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Minimum surface preparation is waterblast at a minimum of 3000 psi and 3 gallon per minute flow rate. Allow to dry thoroughly prior to coating.

Poured Concrete New

Surface must be clean, dry, sound, and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by suitable means. Minimum surface preparation is waterblast at a minimum of 3000 psi and 3 gallon per minute flow rate. Allow to dry thoroughly prior to coating.

Old

Surface preparation is done in much the same manner as new concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D 4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or waterblasting at a minimum of 3000 psi and 3 gallon per minute flow rate. other suitable means. Allow to dry thoroughly prior to coating.

Follow the ASTM methods listed below when applicable:

ASTM D4258 Standard Practice for Cleaning Concrete.
ASTM D4259 Standard Practice for Abrading Concrete.

Surface Preparation Standards				
Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature: 35°F minimum, 100°F maximum (air, surface, and material)
Apply under dry conditions only.
Do not apply if rain is expected within 4 hours following application
At least 5°F above dew point

Relative humidity: 85% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up:Xylene, or Toluene

Airless Spray

Pressure..... 1500 psi
Hose..... 1/4" ID
Tip013" to .017
Reduction..... as needed, up to 20% by volume

Brush

Brush..... Natural Bristle
Reduction..... Not recommended

Roller

Cover 3/8"-3/4" nap lambswool or solvent-resistant cover
Reduction..... Not recommended

If specific application equipment is not listed above, equivalent equipment may be substituted.



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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly by boxing and stirring before use.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate Two Coats:

~Coverage sq ft/gal: 180 235

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 77°F @ 50% RH:

To touch: 15 minutes

To recoat: 3 hours

Drying time is temperature, humidity, and film thickness dependent.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Xylene, or Toluene. Follow manufacturer's safety recommendations when using any solvent. Use "waterless" hand cleaner to remove dried material from skin.

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PERFORMANCE TIPS

Apply under dry conditions only. Do not apply if rain is expected within 4 hours following application.

Apply liberally for maximum bonding.

Stir thoroughly before and during application.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

D.O.T. Concrete Sealer is mainly used for exterior concrete surfaces. It can be used on interior surfaces, only if the area allows for very good ventilation.

Refer to Product Information sheet for additional performance characteristics and properties.

SAFETY PRECAUTIONS

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