DOT PROTECT

BOND-TIGHT SILANE SERIES

PRODUCT DATA SHEET

PRODUCT OVERVIEW

DOT Protect is a 2K clear coat silane system designed for long-term protection of roadways.

FEATURES

- Excellent hardness
- Excellent mar resistance
- Excellent abrasion resistance
- Excellent UV protection
- High heat tolerance (1,000°F)
- Good water resistance

FINISH

- High Gloss
- Clear Coat

SPREAD RATE

Theoretical Coverage:
605 sq.ft. per gallon @ 1 mil DFT
Recommended Coverage:
4,038 sq.ft. per gallon
@ 0.15 mil DFT

SUBSTRATES

- Concrete
- Pavers
- Brick
- Oxidized paint
- Fresh paint

BENEFITS

Concrete, Pavers, Brick: DOT Protect offers water resistance and a smooth, low-slip surface to porous substrates.

Painted substrates: DOT Protect offers color restoration to oxidized paints as well as excellent UV protection to all painted surfaces.

SURFACE PREPARATION

General Purpose Cleaning/Degreasing: Use a mild detergent and a clean cloth, scrubbing brush, spray bottle, pump-up sprayer or pressure washer to clean the substrate and thoroughly rinse the surface to remove any residue prior to coating. If cleaning/coating a vertical surface, work from the top of the substrate down. The substrate must be completely dry prior to DOT Protect application.

COATING PREPARATION

The mixing instructions for DOT Protect must be followed precisely for optimum performance. Refer to the SDS for proper chemical handling.

In a clean glass, metal, or HDPE container measure 2 Parts A to 3 Parts B by volume.

1. Combine Parts A and B. Product will become yellow/green and opaque
2. Mix product for 3 to 5 minutes to ensure components are thoroughly combined. For smaller batches (≤32oz), this is possible by hand shaking the capped container. Larger batches can be mixed with a stir stick, variable speed drill or drill press with a mixing paddle attachment.
3. Allow the product to react uncapped until it returns to a clear, colorless state. This will take approximately 30 minutes for semi-gloss and up to 2 hours for gloss. If settling or separation of components occurs during the reaction process, repeat mixing.

Note: During the mixing process, the combined products may generate a slight exothermic reaction and the sides of the container may feel warm to the touch.

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SPECIFICATIONS

Binder Type: Polysiloxane
Volume Solids: 38 ± 4%
Weight Solids: 38 ± 4%

Part A:
Weight per gallon: 8.4 lb
Flash point: 73°F/23°C

Part B:
Weight per gallon: 8.4 lb
Flash point: > 150°F/66°C

Shelf Life: 12 months, unopened
Pot Life: 24 hours* temperature dependent

PERFORMANCE DATA

Recommended DFT is 0.1-0.2 mil unless otherwise stated

Salt Spray: Excellent
4,000hr with no visible effects
Solvent Resistance: Good
50+ double rubs
- MEK
- Xylene
- Acetone

Pencil Hardness: Up to 4H

APPLICATION METHODS

After Part A and Part B are adequately mixed and the reaction has been completed, the coating can be applied to the prepared substrate.
For all substrates, DOT Protect can be sprayed, brushed or rolled.

Apply by spraying, brushing with a high quality brush, wiping with a paint pad, or dipping. The amount of coverage per gallon is dependent upon the substrate, the applicator and the equipment used.

DRY TIMES

DOT Protect can be applied in situ. Temperature and relative humidity changes will affect cure time.

Cure Conditions:	75°F/24°C @ 50% RH
Recoat:	< 1 hour
Dust-Free:	30 minutes
Dry to Handle:	1 - 2 hours
Full Cure:	10 - 15 days

CLEAN-UP

While coating is wet, water may be used for cleaning. After the coating dries, solvents e.g. acetone, MEK) may be required for clean up.