Steri-Prime DTO

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Epoxy primer
Description	A high solids epoxy primer for concrete that has previously been exposed to oils, grease, or fats. Specially designed to increase adhesion and reduce the potential for outgassing in high performance flooring or containment systems.
Features	• Meets most VOC Requirements • Distinct, But Low Odor • User Friendly • Increases adhesion to oil saturated concrete that has been surface cleaned. • Tolerant to moisture vapor transmission (<5 lbs per 1000 ft^2 / <24.4 g/m^2)
Typical Uses	Primer for epoxy and urethane systems on concrete and other porous substrates
Color	Translucent Grey
Dry Film Thickness	4 - 6 mils (102 - 152 microns) per coat
Solids Content	By Volume 100%
Theoretical Coverage Rate	1604 ft²/gal at 1.0 mils (39.4 m²/l at 25 microns) 401 ft²/gal at 4.0 mils (9.8 m²/l at 100 microns) 267 ft²/gal at 6.0 mils (6.6 m²/l at 150 microns) Allow for loss in mixing and application.
VOC Values	**As Supplied** : As supplied 0.08 lbs/gal (10 g/L)
Topcoats	Topcoat selection will depend on exposure Contact Dudick for recommendations.

SUBSTRATES & SURFACE PREPARATION

Concrete	Concrete shall be designed, placed, cured, and prepared per NACE No. 6/SSPC-SP 13, latest edition. Abrade to remove all laitance, loose concrete, etc. and to create surface profile in accordance with ICRI CSP 2 or greater. Consult your Dudick representative for more information about the right surface profile for your coating system.

PERFORMANCE DATA (TYPICAL VALUES)

Test Method	Results
Adhesion to Concrete ASTM D-7234	Cohesive Failure of Concrete
Tensile Elongation ASTM C-307	10-15%
Tensile Strength ASTM C-307	1,400 - 2,200 PSI

MIXING & THINNING

Mixing	Premix component b, then pour into to component A. Mix with slow speed drill and helical spinner, taking care not to entrain air.
Ratio	1.8:1

MIXING & THINNING

Pot Life	The pot life will depend on the temperature. To prevent material waste and avoid damage to equipment, do not mix more material than can be used according to the following: 90 minutes @ 50ºF (10ºC) 40 minutes @ 75ºF (24ºC) 25 minutes @ 90ºF (32ºC)

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General	brush, roller, or squeegee.
Brush & Roller (General)	Use a short-nap mohair roller cover with solvent resistant core. For best results, condition roller before application to minimize lint or loose fibers. A high quality solvent resistant brush may be used for hard to reach areas.

APPLICATION PROCEDURES

General	Prime all surfaces to be coated at 4-6 mils (101-152 microns). Do not allow the primer to puddle. At stated minimum recoat times, primer may still be tacky. To optimize inter-coat adhesion, it is recommended to apply the basecoat over primer that is tacky. If this is not possible, adhere to maximum recoat times referenced in the Curing Schedule.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	65°F (18°C)	50°F (10°C)	50°F (10°C)	20%
Maximum	90°F (32°C)	90°F (32°C)	90°F (32°C)	90%
Optimum	75°F (24°C)	75°F (24°C)	75°F (24°C)	50%

The temperature of the substrate should NOT exceed the dew point by 5°F (3°C) during application and curing. **Temperatures should not fall below 50°F (10°C) in the 24 hours after application.**

CURING SCHEDULE

Surface Temp.	Dry to Topcoat Minimum	Dry to Topcoat Maximum
50°F (10°C)	14 Hours	3 Days
75°F (24°C)	8 Hours	2 Days
90°F (32°C)	4 Hours	1 Day

- To optimize intercoat adhesion Steri-Prime DTO may be top coated once it is dry enough to be tacky but does not transfer when touched.
- Application in direct sunlight may lead to blistering, pinholes, or wrinkling due to outgassing of air in the concrete and high substrate temperatures. Double priming, shading, or evening application may be required.
- Exposure of the primer to direct sunlight or heat will considerably shorten the recoat times.
- If recommended recoat times are exceeded, sanding or abrasive blasting may be required before further coats can be applied.

TESTING / CERTIFICATION / LISTING

General	Dudick flooring systems can be built to meet or exceed the requirements of Static or Dynamic Coefficient of Friction testing per installation to meet static coefficient of friction requirements for ANSI B101.1 of >0.6 and dynamic coefficient of friction (DCOF)* – Wet ANSI A326.3 of >0.42.

CLEANUP & SAFETY

Cleanup	Use S-10 Cleaning Solvent, MEK, or Acetone to clean tools and equipment.
Safety	Read and follow all caution statements on this product data sheet and on the SDS. Employ normal safety precautions. Keep container closed when not in use.

PACKAGING, HANDLING & STORAGE

Packaging	**1 Gallon Kit:** Part A - 0.64 gal (2.42 liters) Part B - 0.36 gal (1.36 liters) **5 Gallon Kit:** Part A - 3.2 gal (12.11 liters) Part B - 1.8 gal (6.81 liters)
Shelf Life	6 months @ 50-75°F (10°C-24°C) When stored in their original, unopened containers. Exposure to excessive heat may cause premature gelling, reduce working time and shelf life.
Storage	All products should be stored in a cool, dry area away from open flames, sparks or other hazards. ***Warning:*** All Dudick, Inc. products classified by DOT with either white, yellow or red labels, must not be mixed or stored together as an explosive reaction can occur.
Shipping Weight (Approximate)	1 Gallon Kit: 13.94 lbs (6.3 kg) 5 Gallon Kit: 49.4 lbs (22.8 kg)

WARRANTY

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