



# TECHNICAL DATA SHEET

## TURBO LINER - STAINGARD 7000

### Aliphatic Polyaspartic Polyurea Topcoat

REVISION 4/9/18

### Product Description

Turbo Liner-Staingard 7000 is a high solids, spray-applied, aliphatic polyaspartic polyurea with excellent retention, gloss and UV stability characteristics. It can be applied at a thickness of 8-12 mils (200-300 microns) in a single pass on horizontal surfaces or multiple passes on vertical surfaces. Turbo Liner-Staingard 7000 is quick curing and specifically formulated to be installed in thin film applications. Turbo Liner Products manufactures products in different VOC's ranging from 100 to 340 gms/liter to comply with VOC requirement in various regions. Make sure to use the correct grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

### FEATURES

- » USDA Approved for Incidental Food Contact
- » Anti-Fungal and Biocide
- » Quick Cure
- » Color Stable
- » High Tensile Strength
- » Very Durable
- » Abrasion Resistant
- » Excellent Weatherability
- » Topcoat Over Aromatic Polyurea, Polyurethane and Epoxy Applications
- » UV Resistant for Superior Gloss Retention

### TYPICAL USES

- » Concrete
- » Steel
- » Plywood
- » Plastic
- » Cold Storage Areas
- » Food Processing Areas
- » Industrial Warehouses
- » Pulp and Paper Mills
- » Chemical Plants
- » Fertilizer Plants
- » Off-Shore Oil Platforms
- » Pipeline Barges

### PACKAGING

**2-gallon kit** 1 gallon (3.78 liters) can Side-A and 1 gallon (3.78 liters) can Side-B

**10-gallon kit** Not an in-stock item and is available with advanced notice. Contact Turbo Liner Inc. for availability

### Color

Clear, Tan, White and Dolphin Grey. Custom Colors are available but a minimum of 100 gallons (378 liters) is required.

### TECHNICAL DATA (BASED ON DRAW DOWN FILM)

	Staingard 7000 Clear	Staingard 7000 Pigmented
<b>Mix Ratio by Volume</b>	1A : 1B	1A : 1B
<b>Coverage Rate</b>	1 gal/100 sqft (0.41 l/sqm)	1 gal/100 sqft (0.41 l/sqm)
<b>Dry Film Thickness per Coat</b>	15 ± 2 mils 381 ± 50µ	15 ± 2 mils 381 ± 50µ
<b>Pot Life @ 75°F (24°C), 50% R.H.</b>	25-30 minutes	25-30 minutes
<b>Hardness, ASTM -2240</b>	65 ± 5 Shore A	65 ± 5 Shore A
<b>Tear Resistance, ASTM D-624</b>	450 ± 50 pli 78.8 ± 8.8 kN/m	400 ± 20 pli 70.1 ± 8.8 kN/m
<b>Tensile Strength, ASTM D-412</b>	3000 ± 200 psi 20.7 ± 1.4 MPa	3000 ± 200 psi 20.7 ± 1.4 MPa
<b>Ultimate Elongation, ASTM 412</b>	70 ± 10%	50 ± 10%
<b>Specific Gravity, Side A</b>	1.14 ± 0.1	1.14 ± 0.1
<b>Side B</b>	1.06 ± 0.1	1.28 ± 0.1
<b>Total Solids by Weight, ASTM D-2669</b>	90 ± 2%	91 ± 2%
<b>Total Solids by Volume, ASTM D-2697</b>	91 ± 2%	91 ± 2%
<b>Viscosity at 75°F (24°C), Side A</b>	300 ± 100 cps	300 ± 100 cps
<b>Side B</b>	1000 ± 300 cps	1400 ± 300 cps
<b>Volatile Organic Compounds, ASTM D-2369-81</b>	0 lb/gal 0 gm/liters	0 lb/gal 0 gm/liters

### Coverage

The approximate coverage is 1 gallon/100 sqft (0.41 l/sqm). Coverage rate will depend on surface roughness and porosity.

### 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 General Guidelines for detailed surface preparation information.

Minimum recommended surface preparation:

**METAL:**

SSPC-SP6/NACE 3, 2 mils (50 microns) profile

**CONCRETE & MASONRY:**

SSPC-SP13/NACE 6 or ICRI No. 310.2 CSP 3-5. Primer required.

**Mixing**

Turbo Liner-Staingard 7000 may not be diluted under any circumstance. Proportions are premeasured. Turbo Liner-Staingard 7000 Side-A and Side-B should be mixed individually before combining. Add Side-B to Side-A while mixing, using a mechanical mixer at medium speed. Mix until a homogeneous mixture and color is attained (at least 5 minutes) and mix frequently during application to maintain uniform color. Do not thin. Do not mix in an up and down motion.

Use care to scrape the sides of the container to ensure that no unmixed material remains.

Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life. Do not mix any material that cannot be used within 20-30 minutes.

**Application**

Turbo Liner-Staingard 7000 can be applied by phenolic resin core roller, plural component high pressure spray, or through a Pressure Pot. Turbo Liner-Staingard 70 00 should be applied at a minimum film thickness of 5 mils (127 microns). It should be noted that the heavier the application, the longer the curing process takes.

For best results, use an airless sprayer. A phenolic resin core roller may be used, but extra care should be taken not to cause air bubbles.

**Curing**

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 3-4 hours. Cure time will vary depending on temperature and humidity.

Allow 6 hours before permitting light pedestrian traffic and at least 24-48 hours before permitting heavy pedestrian traffic on to the finished surface.

Uncured Turbo Liner-Staingard 7000 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. If more than 12 hours passes between coats, reprime the surface with Polyprime U before proceeding. If more than 12 hours have passed after applying clear coat of Polyaspartic, then re-prime surface with Polyprime U and apply Turbo Liner Staingard pigmented coat. If clear coat is required, then clear coat should be applied only after pigmented coat. If clear coat is applied after primer, the primer will become yellowish with exposure to light and surface will look not look

aesthetically pleasing.

Low temperature and/or low humidity extend the cure time.

**Cleanup**

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

**Storage**

Turbo Liner-Staingard 7000 has a shelf life of 1 year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

**Limitations**

The following conditions must not be coated with Turbo Liner deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. On grade slabs may receive Turbo Liner system coatings provided a moisture-vapor transmission test is first performed. Please contact Turbo Liners' technical department with the results.

With regard to coating asphalt surfaces, please contact Turbo Liners' technical department.

Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

**Warning**

**This product contains Isocyanates.**

**Disclaimer:** All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Turbo Liner Products makes no claim that these tests or any other tests, accurately represent all environments. © 2018 Turbo Liner Inc. All rights reserved.