

TURBO-LINER 558

Two Component Modified Polyurea Protective Coating

DESCRIPTION

Turbo-Liner 558 is a two component, 1:1, 100% solids, fast set, liquid applied, modified polyurea liner system for metal, concrete, fiberglass and wood surfaces.

FEATURES

- ❖ Seamless
- ❖ High Build
- ❖ Tough and Elastomeric
- ❖ Quick Drying
- ❖ Chemical Resistance
- ❖ Low Temperature Flexibility
- ❖ Abrasion and Impact Resistant

TYPICAL USES

- ❖ Truck Bed Surfaces
- ❖ Cargo Holds
- ❖ Utility Vehicles
- ❖ Horse Trailers
- ❖ Cargo liners
- ❖ Industrial Floorings
- ❖ Boat Linings
- ❖ Walkways
- ❖ Waterproof Decking
- ❖ Containment Areas
- ❖ Encapsulation of Fiberglass Bodies and Polystyrene Foams

COLOR

Clear/Neutral or Black. Custom colors are available upon request. Color Packs, when used, must be added to Part-B.

Due to its aromatic composition, Turbo-Liner 558 will tend to yellow or darken in color and will become flat after exposure to UV light. Turbo-Liner 558 may be topcoated within twelve hours of application with an aliphatic polyurethane/polyurea coating for a colorfast finish.

PACKAGING

10 gallon kit: 5 gallons (47 lbs. net) Side-A (Isocyanate side) and 5 gallons (43 lbs. net) Side-B (Resin side).

100 gallon kit: 50 gallons (470 lbs. net) Side-A (Isocyanate side) and 50 gallons (430 lbs. net) Side-B (Resin side).

COVERAGE

Turbo-Liner 558 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

SURFACE PREPARATION

In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor surface preparation. Polyurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. Turbo Products recognizes the potential for unique substrates from one project to another. The following information is for general reference, and for project-specific questions, contact Turbo Products.

New and Old Concrete: Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shotblasting and/or suitable chemical means, in accordance with local chemical regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, Turbo-Liner 260 or a mixture of Turbo-Liner 21 and sand should be used as a repair agent for cracks, spalls, bug holes and voids.

TECHNICAL DATA

Mix Ratio, by volume	1A:1B
Pot Life @ 150°F	4-6 seconds
Tack Free Time (150 mils Thick)	10-30 seconds
Recoat Time	0-12 hours
Viscosity at 150-160°F (65.5-71°C), Brookfield:	
Side-A	120 ± 20 cps
Side-B	190 ± 20 cps
Density (Side-A & B Combined)	9.17 lbs/gal
Specific Gravity (Side-A & B Combined)	1.10
Flash Point	>200°F
Hardness, ASTM D-2240*	55 ± 5 Shore D
Tensile, ASTM D-412*	2400 ± 300 psi
Elongation, ASTM D-412*	200 ± 40%
Tear, ASTM D-624*	400 ± 40 pli
Service Temperature	-20°F to 250°F

(*These physical properties from sample sprayed with Graco Foam Cat 200 @ 2000 psi minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F. Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate.)

Concrete Surface Preparation Reference: ASTM D4258 - Standard practice for cleaning concrete
ASTM D4259 - Standard practice for abrading concrete
ASTM D4260 - Standard practice for etching concrete
ASTM F1869 - Standard test method for measuring moisture vapor emission rate of concrete
ICRI 03732 - Concrete surface preparation

Wood: All wood should be clean, dry and free of any knots, splinters, oil, grease or other contaminants. Splintered or rough areas should be sanded. Knots should be repaired using Turbo-Liner 260 with sand.

Steel (Atmospheric and Immersion Exposure): Remove all oil, grease, weld spatters and round off any sharp edges from surface. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Optimum surface profile is 2-3 mils. Prime and shoot Turbo-Liner 558 on to any bare metal the same day as it is cleaned to minimize any potential flash rusting.

Aluminum: Aluminum should be blasted with aluminum oxide or sand, and not with steel or metal grit. Excessive blasting may result in a warped or deformed surface. After blasting, wash aluminum with a commercially available aluminum cleaner. Allow to dry, then prime.

Brass and Copper: Brass and copper should be blasted with sand, and not with steel or metal grit. Remove all dust and grease prior to applying primer.

Galvanized Surfaces: Clean and degrease any contaminated surfaces. Do not blast galvanized surfaces with an abrasive grit.

Fiberglass Reinforced Plastic: The gel coat should be lightly blasted or sanded with 80 grit sandpaper and cleaned.

Plastic Foams: Enhanced adhesion is obtained when the foam is mechanically abraded. When coating polystyrene, do not use a solvent-based primer.

Textiles, Canvas, Fabrics: Adhesion to most fabrics, geothermal membranes and textiles does not require a primer.

Stainless Steel: Stainless steel may be grit blasted and degreased. Some stainless steel alloys are so inert that it is not possible to achieve a satisfactory bond. An adhesion test is recommended prior to starting the project.

New and Old Cast Iron: Blast with a steel grit and degrease. Old cast iron is difficult to prepare for a satisfactory bond. It can absorb oil and water soluble contaminants that will keep returning to the surface after the coating system has been applied and affect the coating system adhesion. An adhesion test is recommended prior to starting the project.

All Other Surfaces: An adhesion test is recommended prior to starting the project.

MIXING

Turbo-Liner 558 may not be diluted under any circumstances. Thoroughly mix Turbo-Liner 558 Part-B (Resin side) with air driven power equipment until a homogeneous mixture and color is obtained.

APPLICATION

Both Part-A and Part-B material should be preconditioned at 80-90°F before application. Recommended surface temperature must be at least 5°F above the dew point. Turbo-Liner 558 should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Reactor, Glass Craft or other equivalent machine may be used. Both Part-A and Part-B materials should be sprayed at a minimum of 2000 psi and at temperatures above 150°F. Adequate pressure and temperature should be maintained at all times. Turbo-Liner 558 should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

EQUIPMENT CLEANUP

Equipment should be cleaned with an environmentally safe, urethane-grade solvent (alcohol free) as permitted under local regulations immediately after use.

STORAGE

Turbo-Liner 558 has a shelf life of six (6) months from date of manufacture, in factory-sealed containers. Part-A and Part-B drums must be stored above 60°F. Avoid freezing temperatures. Store drums on wooden pallets to avoid direct contact with the ground. If stored for a long period of time, rotate Part-A and Part-B drums regularly.

LIMITATIONS

Do not open until ready to use.

Both Part-A and Part-B containers must be fitted with a desiccant device during use.

WARNING

This product contains Isocyanates and Curative Material.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Turbo Products representative or visit our website for current technical data and instructions.

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 Products makes no claim that these tests or any other tests, accurately represent all environments.