



**TURBO LINER
PRODUCTS INC.
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TURBO LINER® MPL 11 FR
*Fire Retardant,
Two Component Modified
Polyurea Protective Coating*
****Provisional****

DESCRIPTION

Turbo liner® MPL 11 FR is a fire retardant, two component, 1:1, 100% solids, fast set, liquid applied, modified polyurea liner system for metal, concrete, fiberglass and wood surfaces.

FEATURES

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

TYPICAL USES

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

COLOR

Neutral or Black. Custom colors are available upon request.

PACKAGING

10 gallon kit: 5 gallons Side-A and 5 gallons Side-B.

100 gallon kit: Side-A 50 gallons and Side-B 50 gallons.

MIXING

Turbo liner® MPL 11 FR may not be diluted under any circumstances. Thoroughly mix Turbo liner® MPL 11 FR Side-B Base material with air driven power equipment until a homogeneous mixture and color is obtained.

Both Side-A and Side-B material must be thoroughly agitated until a homogenous mixture is obtained. Do not allow air to be incorporated into the product. Total suspension must be achieved.

COVERAGE

Turbo liner® MPL 11 FR may be applied at any rate to achieve desired thickness. Theoretical coverage per gallon is 1600 sq. ft. at 1 mil.

SURFACE PREPARATION

In general, coating performance is directly proportional to surface preparation. All surfaces must be free of oil, grease, dirt and other contaminants.

Carbon Steel: Remove all contaminants such as oil, grease, dirt, wax or any other chemical product prior to proceeding with surface preparation.

TECHNICAL DATA

Mix Ratio, by volume	1A:1B
Pot Life	2-5 seconds
Tack Free Time	10-30 seconds
Recoat Time	0-12 hours
Viscosity at 150-160°F (65.5-71°C), Brookfield:	
Side-A	800 ± 50 cps
Side-B	120 ± 20 cps
Density (Side-A & B Combined)	10.54 lbs/gal
Flash Point	>200°F
Hardness, ASTM D-2240	50 ± 5 Shore D
Tensile, ASTM 412-C	1200 ± 200 psi
Elongation, ASTM 412-C	100 ± 20%
Tear, ASTM 624-C	250 ± 30 pli
Service Temperature	-20°F to 250°F

A. Exterior coating: Abrasive Blast to SSSP, SP-10 (Near-white) with a surface profile of 12-22 mils.

B. Internal Lining: Abrasive Blast to SSSP-SP-5 (White metal) with a surface profile of 22-32 mils. Vacuum all surfaces to remove dust, etc., prior to application.

Concrete: Remove all contaminants such as oil, grease, dirt, form oil residue, wax or any other chemical product prior to proceeding with surface preparation.

A. Abrasive Blast using brush blast technique or better to achieve 2-3 mil anchor profile.

B. Vacuum to remove dust, etc., prior to application of primer or first coat.

C. Use fiberglass (C-Veil Glass) or a geotextile cloth to bridge cracks over the primed surface.

See Specification Guide for further detail.

APPLICATION

Turbo liner® MPL 11 FR Side-A materials should be preconditioned at 90-100°F and Side-B materials should be preconditioned at 75-80°F before application.

Both Turbo liner® MPL 11 FR Side-A and Side-B materials should be continuously agitated before and during application. Agitate at least 1 hour prior to application using heavy duty drum agitator.

Turbo liner® MPL 11 FR should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Hydra Cat, Glas-Craft or other equivalent machine may be used.

Both Side-A and Side-B materials should be sprayed at temperatures above 150°F. Adequate pressure and temperature should be maintained at all times.

STORAGE

Turbo liner® MPL 11 FR has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

Avoid exposure to freezing temperatures for an extended period of time.

Store drums on wooden pallets to avoid direct contact with the ground.

If stored for a long period of time, rotate Side-A and Side-B drums regularly.

LIMITATIONS

Due to its aromatic composition, Turbo liner® MPL 11 FR will tend to yellow or darken in color after exposure to UV light. Turbo liner® MPL 11 FR may be topcoated with MPL Topcoat an aliphatic polyurethane coating for a color-fast glossy finish.

Do not open until ready to use.

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

WARNING

This product contains isocyanate 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 Liner Products representative or visit our website for current technical data and instructions.

SAFETY PRECAUTIONS

This product is for industrial use only by professional applicators and is not intended or suitable for use in or around a household or residential property. Keep away from children and household items. This material contains polyisocyanates. Vapors and spray mist are harmful. Improper handling and use may be hazardous. At all times safety precautions must be strictly followed during storage, handling and application.

WARNING

Individuals with chronic respiratory problems or prior respiratory reactions to such materials should not be exposed to vapors. All personnel entering the application area, including the applicator must wear properly fitted, NIOSH/MSHA approved, fresh air positive pressure air respirators with a full face piece or an air supplied hood.

Keep the material away from sparks, flash and open flames. Containers, even those that have been emptied, may contain dangerous and explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize containers to empty them.

LIMITED WARRANTY

Turbo Liner Products warrants its products to be free of manufacturing defects and that they will meet Turbo Liner Products current published physical properties. Turbo Liner Products warrants that its products, when properly installed by a licensed applicator according to Turbo Liner Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Turbo Liner Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Turbo Liner Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Turbo Liner Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Turbo Liner Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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.