



ENERFAB™
LININGS GROUP

TECHNICAL DATA SHEET

ENERFAB™ LASTIGLAS™ PL853 NOVOLAC EPOXY COATING AND LINING

PRODUCT DESCRIPTION

LASTIGLAS PL853 is a 100% solids, high build coating and lining with FDA 175.300 approval. It offers outstanding resistance to food and beverage acids and caustic cleaning solutions.

LASTIGLAS PL853 is designed for plural component hot spray application with heated tanks and lines.

FEATURES/BENEFITS

- Meets FDA 175.300 approval
- Provides outstanding chemical resistance to a broad range of acids, alkalis, and solvents
- Is 100% solids, zero VOC
- Must be heat cured 8 hours @ 140°F for optimum performance
- Provides 304 stainless steel performance when applied to properly prepared carbon steel
- 40°F - 200°F thermal cycling capabilities
- Higher Tg

TYPICAL USES

LASTIGLAS PL853 is used to protect concrete and steel surfaces in internal tank lining and process vessel lining applications where excellent long term chemical resistance and FDA 175.300 approval are required. Typical uses may include food and beverage, chemical processing, pharmaceutical, pulp & paper, and water & wastewater facilities. Because of its ability to be sprayed and to hang at 25 mils in a single pass, **LASTIGLAS PL853** may replace multiple coat systems in corrosive environments.

PACKAGING

Product #	Package	Part A	Part B
PL853	50 gal drum	1x50 gal	1x50 gal

NOTE: Repair kits available in two 2 oz tubes.

TYPICAL PHYSICAL PROPERTIES

Mix Ratio A:B	1:1		Resistance to Elevated Temperatures	No slip or flow at required temperature of 158°F	
Color	Steel Gray		Adhesion		
Solids, by volume	100%		ASTM D 4541	Concrete	350 psi 100% concrete failure
VOC (Volatile Organic Content)	-0-		ASTM D 1002	Steel	1,300 psi Minimum 2-3 mil profile
Viscosity, cps	<u>75°F</u>	<u>140°F</u>	Abrasion Resistance	0.05 grams lost ASTM D 4060 CS-17 wheel	
Part A	20,000	3,100	Flammability	Self-extinguishing ASTM D 635 over concrete	
Part B	69,000	4,000	Sag Resistance, single pass	25 mils	
Mixed	44,500	3,500	Impact Resistance		
Coverage @ 20 mils (20% loss)	64 sq. ft.		ASTM D 2794	Direct, inch pound	160 in. / lb.
Pot life, 1 gallon mass				Reverse, inch pound	100 in. / lb.
ASTM D 2471	@130°F	5 minutes			
	@140°F	4 minutes			
Cure Time @ 73°F, 50% RH					
	Dry to Touch	3 hours			
	Full Cure	72 hours			
	@140°F	8 hours			
Hardness, Shore D	70				
ASTM D 2240					

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LIMITATIONS

- Slab on grade requires vapor/moisture barrier.
- Substrate must be structurally sound and free of ponding waters and/or bond-inhibiting contaminants.
- During application and initial cure cycle, substrate and ambient air temperatures must be at a minimum of 50° F. Substrate temperature must be at least 5° F above the dew point (for lower temperature application, contact Enerfab Lining Services Department).

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive **LASTIGLAS PL853** is critical. NACE No. 2 / SSPC-SP-10 Near White Metal Blast is required for steel.

APPLICATION

• MATERIAL DELIVERY AND STORAGE

Store **LASTIGLAS PL853** in a temperature controlled environment, 50° F (10° C) to 80° F (26° C), and out of direct sunlight. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. Shelf life is one year in original, unopened containers stored at temperatures lower than 80° F (26° C).

• INSTALLATION

We understand that you want the system installed right the first time. ENERFAB only utilizes its own highly trained personnel to perform all work including surface preparation, application of ENERFAB's proprietary product, and quality inspection.

• EQUIPMENT

Graco Extreme / Gusmer 2035 with heated lines and tank.

CHEMICAL RESISTANCE

For chemical resistance information, consult Enerfab Chemical Resistance Guide and/or consult Enerfab's Lining Service Department.

MAINTENANCE

For maintenance information, consult Enerfab Lining Service Department.

WARRANTY

The sale of ENERFAB products is governed by the Standard Terms and Conditions of Sale. ENERFAB makes the following **LIMITED WARRANTY** that its products have been supplied free from manufacturing defects, and will conform to ENERFAB manufacturing standards. Technical data furnished is true and accurate to the best of our knowledge; however, no guarantee of accuracy is given or implied. This Limited Warranty shall not apply in the case of damage beyond the scope and protection of the products, exposure of the products to solvents and/or higher concentrations of acids than that for which the products are designed and loss of bond due to hydrostatic pressure, vapor pressure, capillary action or moisture from within, under or adjacent to the concrete surface.

ENERFAB's LIABILITY SHALL NOT EXCEED REPLACEMENT OF OR RETURN OF THE PURCHASE PRICE FOR THE PRODUCTS WHICH IT MAY SELL WHICH MAY PROVE TO BE DEFECTIVE UNDER NORMAL USE AND SERVICE WITHIN ONE YEAR FROM DATE OF SALE AND WHICH UPON EXAMINATION BY ENERFAB SHALL DISCLOSE, TO ENERFAB's SATISFACTION, TO BE DEFECTIVE. IN NO EVENT SHALL ENERFAB BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, BUYERS LOSS OF MATERIAL OR PROFITS, INCREASED EXPENSE OF OPERATION, BODILY INJURY, LOSS OF USE OF PROPERTY, OR DOWNTIME. ENERFAB MAKES NO IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THE BUYER HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES.

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