

DESCRIPTION:

2300 LS is a 100% solids, monolithic, epoxy lining system, applied to a film thickness of 1/16 inch (62mils). 2300 LS is designed for application in wastewater treatment facilities, chemical plants, and in the food and beverage industry. 2300 LS is U.S.D.A acceptable.

ADVANTAGES:

- Monolithic Surface
- Excellent Adhesion To A Variety Of Substrates
- Applicator Friendly – One Coat System
- Applied With Trowel Or Specialty Spray Equipment
- Quick Cure – Short Down-time

USES:

- Manholes & Sewer Lines
- Lift Stations
- Clarifiers
- Containment Dykes
- Wet Wells
- Waste Neutralization Pits
- Grit Chambers
- Aeration Basins
- Secondary Tank walls
- Curbs

SUPPLEMENTAL PRODUCTS:

- 3500 Grout
- 3700 Pourable Epoxy Grout

PACKAGING AND COVERAGE:

2300 LS - Liner – 1 Batch Kit – covers approximately 98 square feet at 1/16 inch (62.5mils), and consists of the following -

- 1 container – Part A (pigmented resin)
- 1 container – Part B (hardener)
- 1 bag – Part C (chemical resistant aggregate)

PROPERTIES:

Compressive Strength	4,390 psi ASTM C-579
Tensile Strength	1,550 psi ASTM C-307 (resin)
Bond Strength	Greater than 350 psi ASTM C-321 100% concrete failure
Coefficient of Thermal Expansion	3.78 x 10 ⁻⁵ in./in./°F
Impact Strength	100 in./lbs.
Indentation	No indentation MIL-D-3134F
Flammability	Does not support combustion ASTM D-635
Water Absorption	0.038% ASTM D-570 24 hours in H ₂ O
Working Time at 75°F	25-35 minutes ASTM C-308
Maximum Immersion Temperature	140°F (60°C)
Shelf Life	1 Year
Solids by Content	By Weight 100% By Volume 100%

SURFACE PREPARATION:

2300 LS may be installed only on clean, sound surfaces.

Concrete:

New concrete must be cured a minimum of 28 days. All coatings, oils, grease and unsound concrete substrate must be removed. Concrete surfaces must then be acid etched, scarified or blasted to remove surface laitance. A good bonding tooth, the texture of 60 grit sandpaper, is desired for adhesion, with the removal of all surface glaze.

For Metal Surfaces:

Blast the surface to near white SSPC-SP10-70 or NACE No. 2 using a Venturi blast nozzle with 100 psi air. To produce the proper 4 mil anchor profile, the blast media used shall be properly graded, clean, sharp, and angular abrasive similar to Humble Abrasive Flint #7 (6-30) mesh, or Steel Grit (HG25).

Brick Manholes:

Surface shall be prepared as described above. Remove deteriorated grout mortar and repair. All leaking cracks must be repaired with a water stop material.

MIXING:

Prior to start, materials should be stored at 70°F (21°C) for at least 48 hours.

Liner - Empty entire contents of Part B and Part A into a clean mixing container, and mix thoroughly with a paddle mixer, jiffy mixer, or equivalent, for 2 minutes. Slowly add the entire contents of Part C and mix for an additional 1 - 2 minutes.

APPLICATION:

Substrate temperature should be 65°-85°F (18°-29°C) during application and for 96 hours thereafter for complete cure. Do not apply if surface temperature is below 60°F (16°C). A trowel with rounded corners (swimming pool trowel) is recommended. Spread mortar evenly over the surface firmly, and in a long wiping motion filling in low spots as you go. As each 98 square foot unit is applied, back roll with a moist, (not wet) roller to remove trowel marks and smooth out surface.

Do not apply in direct sunlight or in rising temperatures as this may cause blistering and/or pinholes from expanding entrapped air in the concrete.

NOTE: If applying with sprayer, contact PF&L technical department for information on acceptable sprayer systems.

CURE TIME:

2300 LS will harden within 2-4 hours; however, 96 hours at 75°F (24°C) is recommended for full development of physical properties and will maximize chemical resistance. Lower temperatures will extend required cure times.

CLEANUP:

Cured or hardened 2300 LS will bond to practically all surfaces and is extremely difficult to remove. Clean all tools and mixer immediately after use with acetone or other solvent based cleaners.

SAFETY:

Avoid direct skin contact. If eye contact occurs, flush with water and consult a physician immediately. Keep work areas well ventilated. Never seal a container of mixed Part A and B as the continuing exothermic reaction may cause container to explode. 2300 LS Material Safety Data Sheets are available upon request.

NOTE:

Refer to 2300 LS Instruction for use.

IMPORTANT NOTICE TO PURCHASER:

The following is made in lieu of all warranties, expressed or implied. Seller and manufacturer's only obligation shall be to replace such quantities of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential arising out of the use of or inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risks and liability whatsoever in connection therewith. The foregoing may not be altered unless written authorization is received from PROTECTIVE FLOORINGS AND LININGS, A DIVISION OF A. W. CHESTERTON.