

DESCRIPTION:

2900 LS is a monolithic, trowel applied, epoxy lining system used in elevated temperature applications. 2900 LS provides excellent protection against corrosion and abrasion, in service temperatures up to 300°F. Because 2900LS is monolithic, commodity hang-up is reduced and it is easier to keep clean.

ADVANTAGES:

- Excellent Chemical Resistance
- Applicator Friendly – Easy To Apply
- Excellent Adhesion.
- Short Downtime – Quick Cure
- Excellent Abrasion Resistance.
- Cost Effective
- U.S.D.A Acceptable

USES:

- Chemical Tanks, Pits, Sumps
- Smoke Stacks
- Wet Scrubbers
- Elevated Temperature Storage Vessels
- Pump Casings
- Slurry Tanks
- Waste Neutralization Pits
- Sand Hoppers and Troughs

SUPPLEMENTAL PRODUCTS:

- 2900 LS - Primer and Veil Coat
- 3500 Grout -Horizontal Pitching and Filler
- 3300 Series Floorings Adjacent Floor Areas
- 3300 CR Veil Coat

PACKAGING AND COVERAGE:

2900 LS – Liner System - packaged in batches consisting of the following -

2900 LS – Primer – covers approximately 30 square feet at 10 mils and consists of the following –

- 1 container - Part A (resin)
- 1 container - Part B (hardener)

2900 LS – Mortar – covers approximately 10 square feet at 1/8 inch, and consists of the following -

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

2900 LS – Veil Coat – covers approximately 30 square feet at 10 mils, and consists of the following -

- 1 container - Part A (resin)
- 1 container - Part B (hardener)

PROPERTIES:

Compressive Strength	15,700 psi ASTM C-579 (resin)
Tensile Strength	11,000 psi ASTM C-307 (resin)
Bond Strength	Greater than 350 psi ASTM C-321 100% concrete failure
Bond Strength (on Steel)	3500 psi
Coefficient of Thermal Expansion	1.2 x 10 ⁻⁵ in./in./°F
Thermal Shock (10 cycles)	No disbondment -20°F to 75°F (-20°C to 24°C) 32°F to 212°F (0°C to 100°C)
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
Working Time at	25-35 minutes 75°F (24°C) ASTM C-308
Shelf Life	1 Year
Solids by Content	By Weight 100% By Volume 100%

SURFACE PREPARATION:

2900 LS may be installed only on clean, sound substrates

Concrete:

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

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 should be properly graded, clean, sharp, and angular, similar to Humble Abrasive Flint #7 (6-30) mesh, or Steel Grit (HG25).

MIXING:

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

Primer - Empty entire contents of Part B into Part A and stir thoroughly for 2 minutes.

Mortar - Empty entire contents of Part B into Part A and stir thoroughly for 2 minutes. Slowly add the entire contents of Part C and mix for another 1-1/2 to 2 minutes.

Veil Coat - Empty entire contents of Part B into Part A and stir thoroughly for 2 minutes.

As with all two-component systems, apply immediately after mixing, as the exotherm will increase over time.

The working time of the mortar will substantially be reduced if the material is left in a pail.

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). First apply the primer to the surface in a thin, even layer with a roller, and then pull the excess down with a squeegee. Prime only the areas you plan to trowel within 2-3 hours. Using a trowel apply the mortar evenly over the surface using firm pressure, filling in low spots as you go. Remove large surface marks by cleaning the trowel and quickly going over the surface with light pressure. Allow mortar to set 2-3 hours or until hardened to the touch. Knock off any surface nubs with a carbide block or grinder. Spread the veil coat over the surface with a roller and pull down excess material with a squeegee.

CURE TIME:

2900 LS will harden within 4-6 hours; however, 96 hours of cure at 75°F (24°C) is recommended for chemical spills. Cure can be accelerated by introducing heat to the substrate. Do not heat over 120°F (49°C), and increase substrate temperature at a rate of no more than 20°F (7°C) per hour.

CLEANUP:

Cured or hardened 2900 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 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. 2900 LS Material Safety Data Sheets are available upon request.

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.