

Revised on April 2012

SL 100

PRODUCT PROFILE:

SL100 is a two component thermoset which is designed to provide long term protection in sewage service. SL100 may be applied in thicknesses up to 0.250 inch in a single pass. SL100 is able to withstand high solid slurries as well as service generating high levels of Hydrogen Sulfide (H₂S). The balance in polymerization allows resistance to slug treatments with caustics and allows the product to maintain film integrity in the presence of high levels of aqueous acids.

PRODUCT FEATURES and BENEFITS:

- 100% Solids, No VOCs
- Excellent UV stability
- Excellent impact resistance and corrosion protection

PHYSICAL PROPERTIES

7 day cure @ 72°F	320 psi
7 day cure @ 40°F	260 psi
Color	Light Gray
Compressive Strength @ yield psi	greater than 14,000 psi
Glass Transition Temperature	144°F
Hardness (Shore D)	86
Weight per gallon	10.51 lbs
Pot Life @ 70°F (21°C)	1 hour 5 minutes
85°F (29°C)	45 minutes
100°F (38°C)	30 minutes
Cure Time @ 70°F or 21°C: Re-coat Window	5 to 6 hours
Light Loading	30 hours
Immersion (Aqueous) Service	2 days
Full or Chemical Service	7 days

Note: Do not keep the blended coating in the original container unless immediate use is planned. Otherwise, exothermic heat created during the curing process will considerably shorten the pot life. Pour the coating into a rolling tray or large aluminum-basting pan. Try to keep the depth of the coating in the tray below 3/8".

CAUTIONS:

1. If the ambient temperature is 85°F (29°C) or higher, pot life may be as short as 20 minutes. Have the working surfaces ready, and mix no more than one gallon of the coating at a time.
2. The substrate temperature must be no less than 5°F (3°C) above dew point—the temperature at which moisture will condense on the surface of the substrate—during all blasting and coating procedures.

TOPCOATING & JOINING ADJACENT SECTIONS:

If the compound is to be coated, apply the coating within the re-coat window (see table below). If this is not possible, allow the compound to cure, then brush-blast, wire-brush or sand to create a mechanical profile on the surface before coating. When it is necessary to join multiple sections of the compound to create a continuous protective layer over a large area, do not attempt to feather and overlap adjoining sections. If adjoining sections cannot be applied within the re-coat window (see table below), continue the full thickness of the compound up to the joint between sections. Allow the first section to cure, then create a mechanical profile, using one of the means listed above, on the edge that will be joined to the next section to ensure a satisfactory bond.

SPEED CURING:

The cure time varies with temperature variations. If rapid cure is desired, cure time can be reduced and product performance enhanced by artificially applying heat during the curing process.

SURFACE PREPARATION:

Note: For optimal coating performance, take considerable care with surface preparation
Metal: Remove all oil, grease, or scale from the surface, and then blast with sharp sand or grit to finish. Use a non-spherical blast medium to give a 2 – 3 mil (50 – 75 micron) profile and to achieve the following surface preparation standards or their equivalents:

Non-chemical Service	SSPC-SP 6 Commercial Blast (NACE 3)
Intermittent Splash or Wear	SSPC-SP 10 Near White Metal Blast (NACE 2)
Immersion or Abrasive Service	SSPC-SP 5 White Metal Blast (NACE 1)

Concrete:

Concrete should be aged at least 28 days before coating and the surface should be clean, dry and free of form-release agents, silicone water proofers and/or curing agents. Sand blasting or scarification is recommended. Wash down old concrete to remove all residues and neutralize the pH before blasting or scarifying. For severe service, a second wash is recommended.

Superior products are self-priming on metallic substrates. However, on concrete, the sealer/primer SC1100 is recommended to avoid bubbling caused by out gassing and to increase overall adhesion.

SC1100 primer is required on concrete that is younger than 28 days. SC1100 primer

can be applied to concrete that has aged a minimum of 7 days. Two coats of SC1100 may be needed on high air entrained concrete.

MIXING PROCEDURES:

Note: Do not mix partial kits.

1. Empty the entire amount of hardener into the resin container.
2. Mix thoroughly until uniform in consistency, continue mixing for an additional 2-3 minutes. Pay special attention to the bottom and sides of the container to insure complete mixing. Due to the high viscosity of this product, a mechanical mixer is preferred. Use at low speed and keep the mixing blade down in the product to avoid entrapping air.

APPLICATION:

Apply SL100 with a trowel, putty knife or other appropriate tool. When working with SL100, dip the trowel or other tools in ethanol or a mixture of ethanol and water to reduce sticking.

CLEAN UP:

Use a mixture of MIBK and Butyl Acetate (50/50) or MEK for cleanup. Be sure to read MSDS for any of these products before using. Skin may be cleaned with denatured alcohol, preferably ethanol.

SAFETY

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.

Please contact ErgonArmor for further information at 877.982.7667 or FAX 601-933-3381. For all Terms and Conditions of Sale see ergonarmor.com.

ORDERING INFORMATION

For additional information, prices, or to place an order, please contact your ErgonArmor sales representative. If you do not know the name of your sales representative, call 877-98ARMOR.

