

# Environmental Coatings, Inc.

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## **SECI-3000 HIGH HEAT RESISTANCE** **WATERBORNE PRIMER & TOPCOAT (LEAD & CHROMATE FREE)** **PRODUCT DATA SHEET**

Generic Type	Inorganic / Silicone
Finish	Flat/ Black / Custom colors available
Components	1
Total Solids By Weight	56.50%
Total Volatile By Volume	43.50%
Weight	10.5-13.5LBS depending on color
Coverage	160 Sq. Ft./Gal (on smooth surface) @ 5 mils DFT
Drying Time	30 Minutes to touch
Flashpoint	>300°F
Shelf Life	5 years minimum
Storage Temperature	45°F to 110°F
Reduction Solvent	Water
Viscosity	70-75 KU
VOC	0.00 Lbs/Gal

**PRODUCT DESCRIPTION:** A new generation inorganic silicone resin paint, formulated with a balanced combination of special pigments and special chemical ingredients, which allow this coating to withstand temperatures exceeding 3000°F and is highly UV resistant.

**USE:** This coating has been used for many years as a liner for industrial ovens and as a kiln coating. It has also been used to coat the exterior of un-insulated boilers and to coat the exterior of high temperature stacks. ECI-3000 is a coating for painting steel, aluminum, and other metals that require high heat protection. It is also for use on concrete and masonry surfaces. ECI-3000 combines chemically with new concrete and masonry surfaces. The coating will not chip or peel from the surface once it is applied. Metal surfaces should be abrasive blasted to SSPC-10 with a 1.5 mil profile and concrete surfaces should be properly prepared by chemical cleaning or abrasive blasting to remove all grease or foreign materials. It is essential that the surface be power washed with a 2% solution of ChlorRid prior to the application of the ECI-3000. Proper surface preparation will ensure a greater life expectancy of the coating system, which in most cases can be 3-5 years. Operating temperatures, frequency of heating and cooling, exposure to certain chemical gases may affect the life of the coating system. Not for use on previously painted surfaces.

### **CHARACTERISTICS:**

- Smooth and effortless application with brush, roller or spray gun
- Thixotropic- will not sag settle or run
- Specially processed to protect against high heat
- Will not support fungal or mildew growth
- Bonds chemically to cementitious surfaces and will not peel
- UV Resistant
- No Fumes
- 0 Flame Spread, 0 Fuel Contribution, 0 Smoke Density

**APPLICATION:** The metal surfaces should first be power-washed with a 1-2 percent solution of Chlor\*Rid in water to remove any soluble salts which cause corrosion. If power washing isn't feasible, a scrub-wash with a 4-5 percent solution of Chlor\*Rid in water may be used. As the ECI-3000 is thixotropic the product should be thoroughly mixed immediately prior to use. As a primer coat on smaller areas, wipe down all surfaces with a paint glove or suitable replacement, with a 3 parts ECI-3000 to 1 part water solution (on larger surfaces a mist coat is preferred) prior to applying the finish coat. The finish coat may be applied as soon as the primer coat is touch dry. This coating can be applied with brush, roller or spray gun. Paint only when the surface and air temperature exceeds 45°F. To assure penetration into corners and crevices, brush or spray application is preferred. A second finish coat will extend the life of the coating system. The coating system should be allowed to cure for at least 24 hours prior to returning the coated area to service. The coating should not be applied if rain is forecast within the following 24 hour period.

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