



# Highland International, Inc.



## Technical Data Sheet

### 850 Series HiTemp 500°F Silicone Gloss Topcoat

**850 Series HiTemp** is a single package special silicone paint formulated to maintain gloss and color purity up to 500°F. Its unique heat resistant properties have led to its success in soil-burning plants, industrial kiln complexes, and incineration devices where excessive heat demands are the rule. **NOTE: This product will not completely cure until exposed to the proper heat requirements (see Cure Time below). Also, excessive DFT could result in bubbles or delamination of the coating.**

<b>Vehicle Type:</b>	Silicone	<b>Dry-Time:</b>	<u>Normal Application</u>	<u>Hot Application</u>
<b>Pigmentation:</b>	Lead Free	<b>To Touch</b>	30 Minutes	N/A
<b>Reducers for:</b>	Not Normally Required	<b>Tack Free</b>	1-2 Hours	N/A
<b>If desired:</b>	Highland #120 Reducer	<b>To Recoat</b>	30 Min. - 1 Hour	N/A
<b>Mixing Ratio:</b>	Single Package	<b>To Handle</b>	2-3 Hours	N/A
<b>Pot Life:</b>	Not Applicable	<b>Put in Service</b>	12 Hours	N/A
<b>Volume Solids:</b>	35%	<b>V.O.C.:</b>	3.5 Lbs. per Gallon (420 Grams/Liter)	
<b>Theoretical Coverage:</b>	560 Sq. Ft. per Gallon @ 1 Mil DFT	<b>Shelf Life:</b>	1 Year Minimum	
<b>Flash Point:</b>	45°F (lowest flashing component)	<b>Finish:</b>	Gloss	
<b>Recommended DFT:</b>	2-3 mils	<b>Color:</b>	Selected Range	
		<b>Cure Time:</b>	4 Hr. @ Minimum 250°F to Maximum 500°F or 1 Hour Minimum 475°F to Maximum 500°F	

**Preparation:** (1) All surfaces to be painted should be dry and free of contaminants. (2) Apply over #830 or #860 HiTemp primers for surface temperatures up to 450°F. For extra durability and corrosion protection apply over #74 Acid-Temp Epoxy Hybrid Coating, #15-ZN Modified Silicone-Zinc Primer, or #335 Series Hi-Zinc Inorganic Zinc Primer.

**Application Requirements:** (1) Stir product thoroughly prior to use. (2) Apply at a rate of 186-280 square feet per gallon to obtain the recommended film thickness.

**Special Notes:** Apply coating no more than 2-3 mils DFT in one coat when topcoating over the 15-ZN. Do not heat cure between coats. To prevent delamination and/or gas bubbles, do not exceed 5 mils DFT when topcoating over #830, #860 or #74 primers. Allow 12 hours after application before heat cure.

**Method of Application:** Conventional Spray or Airless

#### Conventional Spray

#### Airless Spray:

<b>Gun:</b>	DeVilbiss MBC-510	<b>Gun:</b>	Graco 205-591
<b>Fluid Tip:</b>	E	<b>Pump:</b>	30:1
<b>Air Cap:</b>	704	<b>Tip Range:</b>	3.011- 4.013 @ 1800 psi minimum
<b>Atomizing Pressure:</b>	60 psi	<b>Hose:</b>	3/8 inch ID
<b>Pot Pressure:</b>	15-20 psi		
<b>Hose:</b>	1/2 inch ID		

**Brush or Roller:** Touch-up only

**Clean Up:** After use, clean all equipment with lacquer thinner.

**Safety Precautions:** (a) Use normal precautions such as gloves, facemasks, and barrier creams.

(b) Adequate ventilation must be maintained. In confined areas, workmen must wear constant flow airline respirators. (c) If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid, and obtain immediate medical attention. (d) This product contains

**FLAMMABLE** materials. Keep away from sparks and open flames. Observe **NO SMOKING** regulations.

(e) All electrical equipment and installations should conform to NEC regulations. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools, and to wear conductive, non sparking shoes. (f) Observe low flash regulations. (g) Refer to Material Safety Data Sheet (MSDS) for complete safety instructions.

The technical data listed herein has been compiled for your convenience and guidelines, and is based upon our experience and knowledge. However, since we have no control over the use of this information, or this product, no warranty, express or implied, is intended or given. Highland assumes no responsibility whatsoever for coverage, performance, or any other damage, including injuries from use of this information of products recommended herein.

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Updated 12-16-08