



# Highland International, Inc.



## Technical Data Sheet

### #810-LH Series HiTemp 1300°F Topcoat/DTM (Low HAPs)

### #810-LH-HA Series HiTemp 1300°F Topcoat/DTM for Hot Surface Application (Low HAPs)

Reducer Selection Allows for Ambient or Hot Surface Application

**810-LH** HiTemp 1300°F is the result of extensive research and testing into maximum paint performance under extremely elevated temperatures. It will adhere to metal and provide corrosion protection on surfaces with temperatures up to 1300°F. **#810-HA** has been modified so that it can be applied directly to hot surfaces up to 500°F. **#810-HA** is also available in aerosol cans that may be applied directly to hot surfaces up to 500°F. **NOTE: This product will not completely cure until exposed to proper heat requirements (see Cure Time below). Also, excessive DFT could result in bubbles or delamination of the coating.**

<b>Vehicle Type:</b>	Silicone Copolymer	<b>Dry-Time:</b>	<b>Normal Application</b>	<b>Hot Application</b>
<b>Pigmentation:</b>	Special heat resistant extenders	<b>To Touch</b>	30 Minutes	N/A
<b>Reducers for:</b>		<b>Tack Free</b>	1 Hour	N/A
<b>#810 Normal Application</b>	Not Normally Required	<b>To Recoat</b>	1-2 Hours	Immediately
<b>#810-HA Hot Application</b>	#101 Reducer (20%)	<b>To Handle</b>	1-2 Hours	N/A
<b>Mixing Ratio:</b>	Single Package	<b>Put in Service</b>	12 Hours	N/A
<b>Pot Life:</b>	Not Applicable	<b>V.O.C.:</b>	3.5 Lbs per Gallon (419 Grams per Liter)	
<b>Volume Solids:</b>	36%	<b>Shelf Life:</b>	1 Year Minimum	
<b>Theoretical Coverage:</b>	576 Sq. Ft. per Gallon @ 1 Mil DFT	<b>Finish:</b>	Flat	
<b>Flash Point:</b>	~8°F (Lowest Flashing Component)	<b>Color:</b>	Black	
<b>Flash Point for 810-HA:</b>	72°F (Lowest Flashing Component)	<b>Weight:</b>	10.5 Lbs. Per Gallon	
<b>Recommended DFT:</b>	3-5 Mils (as a DTM)	<b>Cure Time:</b>	4 Hr. @ Minimum 250°F to Max. 500°F or	
	2-3 Mils (as a Topcoat)		1 Hour Minimum 475°F to Maximum 500°F	

**Preparation:** All surfaces to be painted should be dry & free of all foreign contaminants. Minimum acceptable surface preparation should be in accordance with SSPC-SP10 Near White Metal Blast. A low profile blast (1.5 Mil., no more than 2 Mils) is preferred.

Apply directly to steel in two coats to achieve the proper DFT or apply over #830 or #860 HiTemp Primers up to 450°F. For extra durability and corrosion protection, apply over #74 AcidTemp 500°F Epoxy Hybrid up to 500°F, #15-ZN Modified Silicone-Zinc

Primer up to 1000°F or #335 Series HiZinc Inorganic Zinc Rich Primer up to 1000°F.

**Application Requirements:** (1) Stir product thoroughly prior to use. (2) Apply at a rate of 115-192 square feet per gallon to obtain the recommended film thickness when applying as a DTM. (3) Apply at a rate of 192-288 square feet per gallon to obtain the recommended film thickness when applying as a topcoat. (4) Do not heat cure between coats.

**Special Notes:** When using as a topcoat, apply no more than 2-3 mils DFT. To prevent delamination and/or gas bubbles, do not exceed a total dry film thickness of 5 mils when applying as a topcoat or a DTM. Allow 12 hours after application before heat cure.

**Special Notes for Hot Application:** 810-HA Hot Application formula may be applied directly to hot surfaces not exceeding 500°F. Reduce 20% with Highland #101 and apply in multiple successive coats not exceeding 1 mil DFT to achieve the recommended film thickness for application to hot surfaces.

**Method of Application:** 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>	3/8 inch ID		
<b>Brush or Roller:</b>	Touch-up only		
<b>Clean Up:</b>	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.

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