



# Highland International, Inc.



## Technical Data Sheet

### 805-HA Series HiTemp 1000°F Topcoat/DTM for Hot Surface Application

#### Reducer Selection Allows for Hot Surface Application

**805-HA Series HiTemp 1000°F Topcoat/DTM** is a special silicone copolymer paint available in a variety of colors and designed to exceed conventional high temperature paint products in heat stability and durability. It is a modified version our 805-LH Series and is made for direct application to hot surfaces up to 500°F. 805-HA Series is an excellent choice for painting hot mix asphalt plant components and other areas that see elevated temperatures up to 1000°F. **NOTE: This product will not completely cure until it is 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 Copolymer	<b>Dry-Time:</b>	<u>Hot Application</u>
<b>Pigmentation:</b>	Lead Free, Zinc Phosphate & Extenders	<b>To Touch</b>	N/A
<b>Reducers :</b>	#101 Hot Application Reducer (20%)	<b>Tack Free</b>	N/A
<b>Mixing Ratio:</b>	Single Package	<b>To Recoat</b>	Immediately
<b>Pot Life:</b>	Not Applicable	<b>To Handle</b>	N/A
<b>Volume Solids:</b>	43%	<b>Put in Service</b>	N/A
<b>Theoretical Coverage:</b>	688 Sq. Ft. per Gallon @ 1 Mil DFT	<b>V.O.C.:</b>	3.5 lbs. per gallon (419 grams/liter)
<b>Flash Point:</b>	40°F (Lowest Flashing Component)	<b>Shelf Life:</b>	1 Year Minimum
<b>Recommended DFT:</b>		<b>Finish:</b>	Flat
<b>When used as a DTM:</b>	3-5 mils	<b>Color:</b>	Selected Range
<b>When used as a Topcoat:</b>	2-3 mils	<b>Cure Time:</b>	4 Hr. @ Minimum 250°F to Max. 500°F or 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-SP6 Commercial Blast. A low profile blast (1.5 Mil, no more than 2 Mil) is recommended.

805-HA may be applied directly to steel in multiple successive coats **or** applied 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.

**Special Notes for Hot Application:** 805-HA Hot may be applied directly to hot surfaces not exceeding 500°F. **(1)** Stir product thoroughly prior to use. **(2)** Reduce material 20% with Highland #101 Hot Application Reducer and apply in multiple successive coats not exceeding 1 mil DFT to achieve the recommended film thickness. **(3)** Apply at a rate of 115-192 square feet per gallon to obtain the recommended film thickness when applying as a DTM. **(4)** Apply at a rate of 192-288 square feet per gallon to obtain the recommended film thickness when applying as a topcoat.

**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.

<b>Method of Application:</b>		<b>Conventional Spray</b>	<b>Airless Spray:</b>
<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 - 3.013 @ 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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