



Highland International, Inc.

Technical Data Sheet



807-LH HiTemp 1300°F Aluminum Topcoat/DTM (Low HAPs)

807 HiTemp 1300°F Aluminum 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 up to 1300°F. Originally formulated for drum mixers and dryers in the Hot Mix Asphalt industry, it has also proven to be unbeatable in other industries on industrial kilns and incinerators. **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.**

Vehicle Type:	Silicone Copolymer	Dry-Time:	Normal Application	Hot Application
Pigmentation:	Heat resistant aluminum & extenders	To Touch	30 Minutes	N/A
Reducers for:	Not normally required	Tack Free	1 Hour	N/A
In summer if desired:	Highland #100	To Recoat	1-2 Hours	N/A
In winter if desired:	Highland #120	To Handle	1-2 Hours	N/A
Mixing Ratio:	Single Package	Put in Service	12 Hours	N/A
Pot Life:	Not Applicable	V.O.C.:	3.5 lbs/gal (419 grams/liter)	
Volume Solids:	35%	Shelf Life:	1 Year Minimum	
Theoretical Coverage:	560 Sq. Ft. per Gallon @ 1 Mil DFT	Finish:	Flat	
Flash Point:	~8°F (Lowest Flashing Component)	Color:	Aluminum	
Recommended DFT:		Weight:	10.5 lbs. per Gallon	
When used as a DTM:	3-5 mils	Cure Time:	4 Hr. @ Minimum 250°F to Maximum 500°F or	
When used as a Topcoat:	2-3 mils		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 Hi-Zinc Inorganic Zinc Rich Primer up to 1000°F.

Application Requirements: (1) Stir product thoroughly prior to use. (2) Apply at a rate of 112-187 square feet per gallon to obtain the recommended film thickness when applying as a DTM. (3) Apply at a rate of 187-280 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.

Method of Application:	Conventional Spray	Airless Spray:
Gun:	DeVilbiss MBC-510	Gun: Graco 205-591
Fluid Tip:	E	Pump: 30:1
Air Cap:	704	Tip Range: 3.011 - 4.013 @ 1800 psi
Atomizing Pressure:	60 psi	Hose: 3/8 inch ID
Pot Pressure:	15-20 psi	
Hose:	3/8 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.

P. O. Box 3564 Boone, NC 28607

800-444-1438

www.highland-international.com

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