

HIGHLAND INTERNATIONAL

Engineered Paint Systems

#807 Series 1300°F HiTemp Direct-To-Metal (DTM) Aluminum

HiTemp #807 Aluminum is the result of extensive research and testing into maximum paint performance under extremely elevated temperatures. HiTemp #807 will adhere to metal and provide corrosion protection on 1300°F surface temperatures. Originally formulated for drum mixers and dryers in the hot-mix-asphalt (HMA) industry, the #807 Series has also proven to be not only successful in other high temperature industries, but simply unbeatable for use on industrial kilns and incinerators. NOTE: THIS PRODUCT WILL NOT COMPLETELY CURE UNTIL EXPOSED TO PROPER HEAT REQUIREMENTS (See Cure Time), AND EXCESSIVE DFT COULD RESULT IN DELAMINATION OF COATING OR GAS BUBBLES.

Vehicle Type:	Silicone	Dry Time:	To Touch – 30 Minutes
Pigmentation:	Special heat resistant aluminum and extenders		Tack Free – 1 Hour
Thinner:	Summer – if desired – Highland #100		To Recoat – 1-2 Hours
	Winter – if desired – Highland #120		To Handle – 1-2 Hours
Mixing Ratio:	Single Package	Recommended	
Pot Life:	Not Applicable	DFT:	3-4 Mills
Flash Point:	45°F (Lowest Flashing Component)	Finish:	Eggshell
Volume Solids:	35%	Color:	Aluminum
Theoretical		Weight:	10.5 Lbs. Per Gallon
Coverage:	576 Sq. Ft. per Gallon @ 1 Mil DFT	Cure Time:	1 Hour @ Minimum 360°F to
Shelf Life:	1 Year Minimum		Maximum 500°F Before
V. O. C.	550 Grams/Liter		Operating at Full Temperatures

Application Requirements: (1) Minimum acceptable surface preparation should be in accordance with SSPC-10 Near White Metal Blast. A low profile blast (1.5 Mil, no more than 2 Mil) is preferred. (2) Stir product thoroughly prior to use. (3) Apply at a rate of 144 to 192 square feet per gallon to obtain recommended film thickness. (4) Apply direct to steel in two coats to achieve proper DFT.

SPECIAL NOTE: Apply coating no more than 2 mils DFT per coat and allow 1-2 hrs. dry time between coats. Do not heat cure between coats. To prevent delamination and/or gas bubbles, do not exceed 5 mil DFT. Special Formula #807 (available upon request) may be applied to hot surfaces not exceeding 500°F. When applied under normal conditions, allow 12 hours after application before putting into service.

Method of Application: Conventional Spray or Airless

CONVENTIONAL SPRAY

Gun:	Devilbiss MBC-510
Fluid Tip:	E
Air Cap:	704
Atomizing	
Pressure:	60 psi
Pot Pressure:	15-20 psi
Hose:	3/8 inch ID

AIRLESS SPRAY

Gun:	Graco 205-591
Pump:	30:1
Tip Range:	3.013 - 3.017 or 4.013 – 4.017 @ 1800 psi

Thinning: Normally unnecessary, up to 10% if desired

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 the skin, wash thoroughly with lukewarm water and soap. If eyes are contaminated, flush with 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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PO Box 3564, 465 Industrial Pk. Dr.
Boone, NC 28607

800-444-1438, 828-265-2513
828-265-2712 (fax)