



Highland International, Inc.



Technical Data Sheet

860-HF Series HiTemp 450°F High Solids Primer (HAPs Free) for the Hot Mix Asphalt Industry

HiTemp High Solids Primer is a single package silicone copolymer primer designed for heat affected zones up to 450°F. It is limited to under 3 lbs. VOC per gallon. It offers maximum adhesion and corrosion protection even in limited surface preparation areas. 860 Series may be topcoated with a wide range of topcoats (silicone alkyds, alkyds, urethanes & acrylics). Its light color allows lead-free orange, yellow & red topcoats to be applied in only "one coat" for proper hiding. To further increase corrosion protection, 860 Series light color is designed to show shadows in the steel surface until proper film thickness has been achieved.

Vehicle Type:	Silicone Copolymer	Dry-Time:	Normal Application	Hot Application
Pigmentation:	Zinc Phosphate (Lead & Chromate Free)	To Touch	20 minutes	N/A
Reducers:	Not normally required	Tack Free	1 hour	N/A
Summer if desired:	Highland #100	To Topcoat	1-2 hours	N/A
Winter if desired:	Highland #120	To Handle	2-3 hours	N/A
Mixing Ratio:	Single Package	Put in Service	12 hours	N/A
Pot Life:	Not Applicable	V.O.C.:	2.98 lbs. per gallon (357 grams/liter)	
Volume Solids:	52%	Shelf Life:	1 Year Minimum	
Theoretical Coverage:	832 Sq. Ft. per Gallon @ 1 mil DFT	Finish:	Flat	
Flash Point:	16°F Lowest Flashing Component	Color:	Light Yellow	
Recommended DFT:	2-3 mils	Weight:	12 Lbs. per Gallon	

Preparation: Minimum surface preparation should be in accordance with SSPC-SP6 Commercial Blast cleaning. When blast cleaning is not an option, SSPC-SP3 Powertool or SSPC-SP2 Wire Brushing is acceptable and provides good results. Also, water jetting in accordance with SSPC-SP12 is acceptable. Surfaces should be dry and free of contaminants.

Application: (1) Stir product thoroughly prior to use. (2) Apply at a rate of 277 to 416 square feet per gallon to obtain the recommended film thickness in one coat. (3) Topcoat with Highland 865 Series, 840 Series, 150C Series or 805 Series (if topcoating with 805 make sure to read the 805 tech sheet and pay attention to the heat curing requirements)

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:	3.013 - 4.015 @ 1800 psi minimum
Atomizing Pressure:	60 psi	Hose:	3/8 inch ID
Pot Pressure:	15-20 psi		
Hose:	3/8 inch ID		

Brush or Roller: Both are acceptable

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.

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