

811 Series

HiTemp 1200°F Modified Silicone DTM



Highland 811 Series is a quick-dry industrial high temperature direct-to-metal (DTM) coating. 811 Series is based on a modified silicone resin fortified with ceramics. The system cures by solvent evaporation, polymerization, and subsequently by the fusion of the ceramics. This coating delivers a smooth, uniform appearance, and utilizes special pigments to achieve maximum heat resistance and color stability. Highland 811 Series can increase throughput by reducing dry time.

Tech Specs

Heat Resistance:	1200°F Constant	Dry-time:	Normal
Resin:	Modified silicone	To touch:	45 Minutes
Reducer:	Xylene	To recoat:	15 Minutes
Mix Ratio:	Single Package	To Ship:	24 Hours
Pot Life:	N/A	Cure Requirements:	Complete cure achieved at 400°F
Solids by Weight:	31.5%	Hot Application:	N/A
Theoretical Coverage:	508.4 ft ² /gal. @ 1 mil DFT	Shelf Life:	2 Years Minimum
VOC:	3.5 lbs per gallon (420 g/l)	Finish:	Flat
Flash Point:	40°F (Lowest Flashing Component)	Color:	Black, Gray, Bright Aluminum
Dry Film Thickness:	2 mils DFT (in 2 coats)	Packaging:	1, 5, & 55 gallon containers
Wet Film Thickness:	3.2 mils WFT per coat	Storage Temperature:	40°F - 100°F

Surface Preparation

All surfaces should be clean, dry and free of all foreign contaminants.
A SSPC-SP1 Solvent Cleaning with Highland 901 Cleaning Solvent is recommended before blasting or other cleaning method.

Carbon Steel:

Best: A SSPC-SP 10 Near White Metal Blast to achieve a low blast profile of .5-1 mil is recommended.

Good: A SSPC-SP6 Commercial Blast will provide good results in most situations.

Acceptable: While abrasive blast cleaning is preferred, when it is not an option, Hand or Power Tool Cleaning per SSPC-SP3 may be used and will provide good results.

Mixing & Application

Mixing: Highland 811 Series needs to be thoroughly mixed using mechanical agitation. It is ready to spray after proper mixing.

To ensure optimal performance, apply according to recommendations below.

Airless Applications

Airless Gun:	Titan 740 Impact or equivalent	Hose:	¼ inch ID
Fluid Pressure:	2700 – 3100 PSI	Gun:	LX-8011 or equivalent
Manifold Filter:	60 Mesh	Tip:	.015 - .021
Gun Filter:	60 Mesh	Brush or Roller:	For touchup only
		Clean Up:	Highland #901 Cleaning Solvent

Recommended Uses

Highland 811 Series is designed for use wherever maximum resistance to heat, humidity, and weatherability is required. Highland 811 Series is formulated for superior sprayability with smooth, uniform coverage. Highland 811 Series dries fast for quick handling. This product can be used on heaters, stacks, boilers, breeches, mufflers, radiators, storage tanks, pipelines, steam lines and other high temperature substrates.

Safety Information

- Use normal precautions such as gloves, facemasks and barrier creams.
- Adequate ventilation must be maintained. In confined areas, applicators must wear constant flow airline respirators.
- If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid, and obtain immediate medical attention.
- This product contains FLAMMABLE materials. Keep away from sparks and open flames. Observe NO SMOKING regulations.
- All electrical equipment and installations should conform to NEC regulations. In areas where explosion hazards exist, applicators should be required to use nonferrous tools, and to wear conductive, non sparking shoes.
- Observe low flash regulations.
- Refer to Safety Data Sheet (SDS) for complete safety instruction

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