

801 Series

HiTemp 850°F Silicone-Copolymer DTM



Highland 801-DTM is a special silicone copolymer coating, designed to meet the stringent demands of a high temperature resistant coating for use on carbon steel, stainless steel, or aluminized steel. Highland 801-DTM has low luster to enhance the uniform appearance across a multitude of surfaces. The curing mechanism is a combination of solvent evaporation and resin cross-linking. Highland 801-DTM air dries to a tough finish, and is designed to withstand handling in a short period of time at ambient temperature.

Tech Specs

Heat Resistance:	850°F Constant	Dry-time:	Normal
Vehicle Type:	Silicone Copolymer	To Touch:	15 Minutes
Reducer:	Xylene, MEK	To Handle:	30 Minutes
Mix Ratio:	Single Package	To Recoat:	2 Hours
Pot Life:	N/A	Cure Requirements:	15 minute air dry then 3 mins @ 200°F
Volume Solids:	27%	Hot Application:	N/A
Theoretical Coverage:	433ft ² /gal. @ 1 mil DFT	Shelf Life:	2 Years Minimum
VOC:	5.3 lbs per gallon (632 g/L)	Finish:	Low Luster
Flash Point:	45°F (Lowest Flashing Component)	Color:	Black, Gray
Dry Film Thickness:	1.0 – 2.0 mils DFT	Packaging:	1, 5, & 55 gallon containers
Wet Film Thickness:	3.7 – 7.4 mils WFT	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 1.0-1.5 mils 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.

Stainless Steel:

Surface must be clean and dry. Remove all oil, grease, soil, drawing and cutting compounds and other foreign matter by solvent cleaning per SSPC-SP1.

Mixing & Application

Mixing: Highland 801-DTM Series needs to be thoroughly mixed using mechanical agitation. It is ready to spray after proper mixing.

Reduction: Reduction is not required, if desired, reduce by 0% - 7% with xylene or MEK.

To ensure optimal performance, apply according to recommendations below.

Standard Airless Applications

Airless:	Titan 740 Impact or equivalent
Pump Pressure:	2100 - 2600 PSI
Manifold Filter:	60 Mesh
Gun Filter:	60 Mesh
Hose:	1/4 inch ID
Gun:	LX-80 II or equivalent
Tip Range:	.013 - .017

Conventional Spray

Air Supply:	11.5 CFM, 50 psi at nozzle, fluid 15 psi
Gun:	Graco 217-800 to 217-816
Type:	External Mix
Reduction:	Up to 7%

Do not apply heavier film than specified, as the coating may blister when heat is applied. Do not use a primer.

Recommended Uses

Wherever maximum resistance to heat, humidity, and weather is required. This product is ideal for use on manifolds, mufflers, radiators and other types of exhaust equipment.

Performance

This unique coating performs as well as many pure silicone coatings, but has the distinct advantage of air-curing, and has excellent adhesion to the aluminized steel. It also affords good corrosion resistance, and has outstanding weather resistance.

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