

850-TC Series

HiTemp 850°F Silicone Alkyd Topcoat



Highland 850-TC Series HiTemp topcoat is based on a specially modified silicone alkyd resin. 850-TC Series air dries to a tough, hard, weather and heat resistant finish. 850-TC Series utilizes a unique combination of solvent evaporation and resin cross-linking, and does not require a heat cure.

Tech Specs

Heat Resistance:	850°F Constant
Color Stability:	Varies Based on Color 850°F for Black & Aluminum
Vehicle Type:	Modified Silicone Alkyd
Reducer:	Xylene
Mix Ratio:	Single Package
Pot Life:	N/A
Volume Solids:	39%
Theoretical Coverage:	625ft ² /gal. @ 1 mil DFT
VOC:	3.5lbs per gallon (420 g/L)
Flash Point:	45°F
Dry Film Thickness:	1.5 – 2.0 mils Dry
Wet Film Thickness:	3.8 – 5.1 mils Wet

Dry-time:	Normal
To touch:	30 Mins
To recoat:	Within 1.5 Hours
If 1.5 hours or more have passed wait 7 days before topcoating	
Hot Application:	N/A
Shelf Life:	2 Years Minimum
Finish:	Gloss
Color:	Standard & Custom Colors
Packaging:	1, 5, & 55 gallon containers
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.

Mixing & Application

Mixing: Highland 850-TC 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.

To ensure optimal performance, apply according to recommendations below.

Airless Applications

Airless: Titan 740 Impact or equivalent
Fluid Pressure: 2700 – 3100 PSI
Manifold Filter: 60 Mesh
Gun Filter: 360 Mesh
Hose: ¼ inch ID

Gun: LX-8011 or equivalent
Tip: .015 - .021
Brush or Roller: Touchup only
Clean Up: Highland #901 Cleaning Solvent

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

Typical Systems

Highland 850-TC Series may be applied over a variety of Highland Primers:

850-PR Series Primer For high temperature areas up to 850°F

802 Series Primer For high temperature areas up to 600°F

860-HF Series Primer For high temperature areas up to 400°F

A wide range of primers are suitable for use with Highland 850-TC Series Topcoat. For more options call a Highland representative.

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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