

# 810-HF Series HiTemp 1200°F

## Silicone Copolymer DTM/Primer



810-HF Series HiTemp is the result of extensive research and testing into maximum paint performance under extremely elevated temperatures. It has excellent adhesion to steel surfaces and provides corrosion protection on surfaces with temperatures up to 1200°F.

### Tech Specs

<b>Heat Resistance:</b>	1200°F Constant
<b>Vehicle Type:</b>	Silicone Copolymer
<b>Reducer:</b>	
In summer if desired:	Highland #100 Reducer
In winter if desired:	Highland #120 Reducer
<b>Mix Ratio:</b>	Single Package
<b>Pot Life:</b>	N/A
<b>Volume Solids:</b>	42%
<b>Theoretical Coverage:</b>	673ft <sup>2</sup> /gal. @ 1 mil DFT
<b>VOC:</b>	3.5 lbs per gallon (419 g/L)
<b>Flash Point:</b>	-8°F (Lowest Flashing Component)
<b>Dry Film Thickness:</b>	3-5 mils DFT as a DTM 2-3 mils DFT as a primer
<b>Wet Film Thickness:</b>	7.1-11.9 mils WFT maximum

<b>Dry-time:</b>	<b>Normal</b>
To Touch:	30 Minutes
Tack Free:	1 Hour
To Recoat:	1-2 Hours
To Handle:	1-2 Hours
To Topcoat:	1-2 Hours
Put in Service:	12 Hour Ambient Flash
<b>Cure Requirements:</b>	4 Hrs. @ Minimum 250°F to Max. 500°F
<b>Hot Application:</b>	Yes, Consult Highland Technical Service for Hot Application Parameters
<b>Shelf Life:</b>	2 Years Minimum
<b>Finish:</b>	Flat
<b>Color:</b>	Black
<b>Packaging:</b>	5 gallon pails
<b>Storage Temperature:</b>	20°F - 110°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 1.5-3.0 mils is recommended (especially for CUI services).

**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-SP2 or SSPC-SP3 may be used and will provide good results.

**Galvanized Steel:** Contact a Highland representative as recommendation will vary depending on substrate and exposure conditions.

### Mixing & Application

**Mixing:** Highland 810-HF 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% - 10% with Highland 100 or 120 reducer.

To ensure optimal performance, apply according to recommendations below.

**Airless Gun:** Graco 205-591  
**Pump:** 30:1/45:1/60:1  
**Tip Range:** 3.011 – 4.013  
**Pump Pressure:** 1800 psi Minimum  
**Hose:** 3/8 inch ID

**Brush or Roller:** Touchup Only – Must Reduce with Highland #105 Reducer

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

**Clean Up:** Highland #901 Cleaning Solvent

## Typical Systems

**DTM Services:** Apply 1 coat of 810-HF Series at 3-5 mils DFT in a single uniform coat  
**Primer/Topcoat:** Apply 1 coat of 810-HF Series at 2-3 mils DFT and topcoat with an approved Highland topcoat

## 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, workmen 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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