

# 805 Series 1000°F

## Modified Silicone Copolymer Topcoat



HiTemp 805-LH Series Topcoat is a single package modified silicone copolymer coating available in a variety of colors. It is designed to exceed conventional high temperature paint products in temperature cure requirements, heat stability (thermal shock), corrosion resistance, color purity, and ease of application. These qualities make 805-LH Series an excellent choice for high temperature painting in power plants, refineries, and other components/areas that see elevated temperatures up to 1000°F.

### Tech Specs

<b>Heat Resistance:</b>	1000°F Constant
<b>Color Stability:</b>	1000° F Constant
<b>Vehicle Type:</b>	Modified Silicone Copolymer
<b>Reducer:</b>	Not Normally Required
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>	45%
<b>Theoretical Coverage:</b>	721ft <sup>2</sup> /gal. @ 1 mil DFT
<b>VOC:</b>	<420 g/L
<b>Flash Point:</b>	-8°F (Lowest Flashing Component)
<b>Dry Film Thickness:</b>	2-3 mils DFT
<b>Wet Film Thickness:</b>	4.4-6.6 mils WFT

<b>Dry-time:</b>	<b>Normal</b>
To Touch:	15 Minutes
Tack Free:	30 Minutes
To Recoat:	1-2 Hours
To Handle:	1-2 Hours
Put in Service:	12 Hours
<b>Cure Requirements:</b>	1-4 Hrs @ Min. 250°F - 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>	Standard & Custom
<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. Apply over Highland approved primer. Consult Highland technical data sheet for recoat windows on approved primer before application. See typical systems for primer options.

### Mixing & Application

**Mixing:** Highland 805 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.

Highland 805 Series is designed for spray application. To ensure optimal performance, apply according to recommendations below.

<b>Airless Gun:</b>	Graco 205-591
<b>Pump:</b>	30:1/45:1/60:1
<b>Tip Range:</b>	3.011 – 4.013
<b>Pump Pressure:</b>	1,800 psi Minimum
<b>Hose:</b>	3/8 inch ID

**Brush or Roller:** Touch Up Only

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

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

## Typical Systems

Highland 805 Series may be applied over a variety of Highland Primers:

827-HB Series Primer

For a high build option in areas up to 1000°F

15-ZN Series Primer

For cathodic protection in areas up to 1000°

860-HF Series Primer

For high temperature areas up to 400°F

47-HF Series Primer

For added corrosion resistance in high temperature areas up to 400°F

802 Series Primer

For high temperature areas up to 600°F

A wide range of primers are suitable for use with Highland 805 Series Hot Spot Eliminator. 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