



# Highland International, Inc.



## Technical Data Sheet

### #805-DF Series HiTemp Dry-Fall 1000°F Topcoat (Low HAPs)

#805-DF Series Dry-Fall HiTemp is a single package special silicone copolymer paint available in a variety of colors designed to provide heat and color stability up to 1000 °F. This coating requires a heat cure at a **minimum temperature of 250°F for 4 hours or a minimum 475°F to maximum 500°F for 1 hour.** This products overspray will dry to a powder within 10-20 feet from point of application and, in turn, eliminates paint overspray damage.

<b>Vehicle Type:</b>	Silicone Copolymer	<b>Dry-Time:</b>	<b>Normal Application</b>
<b>Pigmentation:</b>	Lead Free, Zinc Phosphate, & Extenders	<b>To Touch</b>	15 Minutes
<b>Reducers &amp; Reduction:</b>	Reduce 10% With Proper Reducer	<b>Tack Free</b>	30 Minutes
<b>Summer (above 80F):</b>	30-E VOC Exempt Warm Weather Reducer	<b>To Recoat</b>	1-2 Hours
<b>Winter (below 80F):</b>	32-E VOC Exempt Regular Reducer	<b>To Handle</b>	1-2 Hours
		<b>Put in Service</b>	12 Hours
<b>Mixing Ratio:</b>	Single Package	<b>V.O.C.:</b>	420 Grams/Liter
<b>Pot Life:</b>	Not Applicable	<b>Shelf Life:</b>	1 Year Minimum
<b>Volume Solids:</b>	43%	<b>Finish:</b>	Flat
<b>Theoretical Coverage:</b>	688 Sq. Ft. per Gallon @ 1 Mil DFT	<b>Color:</b>	Selected Range
<b>Flash Point:</b>	-4°F (Lowest Flashing Component)	<b>Cure Time:</b>	4 Hr. @ Minimum 250°F <b>OR</b>
<b>Recommended DFT:</b>	2-3 Mil		1 Hour Minimum 475°F to Maximum 500°F

**Preparation:** Apply over Highland's #830 or #860 Dry-Fall HiTemp Primers up to 450 °F. For extra durability and protection apply over #74 AcidTemp Epoxy Hybrid Primer up to 500°F or #15-ZN Silicone-Zinc Primer up to 1000°F.

All surfaces to be painted should be dry and free of contaminants.

**Application:** To assure Dry-Fall effect, do not apply in temperatures below 45°F, on surfaces below 40°F, or humidity above 85% .

**Make sure the equipment you are using to spray with will give you accurate PSI readings so that**

**the pressure from the pump can be maintained at 1800 psi allowing a maximum +/- 25 psi for surges.**

The product's curing will slow drastically to temperatures below 40°F. *(see Cure Time for complete heat curing requirements)*

Do not apply in temperatures that are 5°F or less from the dew point.

**Reduction:** Must Reduce 15% with:

#30-E Highland VOC Exempt Warm Weather Dry-Fall Reducer for temperatures 80°F and above

#32-E Highland VOC Exempt Cold Weather Dry-Fall Reducer for temperatures below 80°F

#105 Brush and Roll Reducer for Dry-Fall Coatings

If "fingering" occurs during the spray application, increase the amount of thinner, which decreases the viscosity of the paint. **Do not**

**increase the pump pressure. Maintain 1800 psi allowing +/- 25 psi for surges.**

**Method of Application:** Conventional Spray or Airless

#### Conventional Spray

#### Airless Spray:

<b>Gun:</b>	DeVilbiss MBC-510	<b>Gun:</b>	Graco 205-591
<b>Fluid Tip:</b>	E	<b>Pump:</b>	30:1
<b>Air Cap:</b>	704	<b>Tip Range:</b>	.011 to .013
<b>Atomizing Pressure:</b>	60 psi	<b>Hose:</b>	3/8 inch ID (Do not use whip lines)
<b>Pot Pressure:</b>	15-20 psi	<b>Pump Pressure</b>	1800 psi allowing +/- 25 psi for surges
<b>Hose:</b>	3/8 inch ID		
<b>Brush or Roller:</b>	Touch-up only		
<b>Clean Up:</b>	After use, clean all equipment with lacquer thinner.		

**Safety Precautions:** (a) Use normal precautions such as gloves, facemasks, and barrier creams.

(b) Adequate ventilation must be maintained. In confined areas, workmen must wear constant flow

airline respirators. (c) If product comes into contact with skin, wash thoroughly with lukewarm

water or diluted Boric Acid, and obtain immediate medical attention. (d) This product contains

**FLAMMABLE** materials. Keep away from sparks and open flames. Observe **NO SMOKING** regulations.

(e) All electrical equipment and installations should conform to NEC regulations. In areas where

explosion hazards exist, workmen should be required to use non-ferrous tools, and to wear conductive,

non sparking shoes. (f) Observe low flash regulations. (g) Refer to Material Safety Data Sheet (MSDS)

for complete safety instructions.

The technical data listed herein has been compiled for your convenience and guidelines and is based upon our experience and knowledge. However, since we have no control over the use of this information or this product, no warranty express or implied is intended or given. Highland assumes no responsibility whatsoever for coverage, performance or any other damage, including injuries from use of this information of products recommended herein. However, when applied according to manufacturers specifications, these products will perform as indicated.

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