



840 Series HiTemp Topcoat is a single package modified silicone copolymer topcoat that is limited to 3.75 lbs. VOC per gallon. Originally designed for hot mix asphalt plants, HiTemp 840 meets a multitude of high heat demands. Due to the high silicone content and heat and light stable pigmentation, HiTemp 840 maintains exceptional gloss and color purity in heat and rugged coastal and winter environments. Since it dries to a powder within 10-20 feet from point of application, it may be used in high traffic areas where overspray damage to nearby cars and equipment would be a concern. 840 Series will remain intact in constant temperatures of 350°F and intermittent excursions to 400°F. It will begin to lose gloss at 300°F and color purity at 350°F.

Vehicle Type:	Silicone Alkyd Copolymer
Pigmentation:	Lead & Chromate Free
Reducers:	
Below 80°F:	Highland #32-E Reducer
Above 80°F:	Highland #30-E Reducer
To Maintain Wet Edge:	Highland 36-E Reducer (Maximum 5%)
Mix Ratio:	Single Package
Pot Life:	Not Applicable
Volume Solids:	42%
Theoretical Coverage:	672 ft ² /gal. @ 1 Mil DFT
Flash Point:	-8°F (Lowest Flashing Component)
Recommended DFT:	2-3 mils
Dry-time:	
To Touch:	10 minutes
Tack Free:	30 Minutes to 1 Hour
To Recoat:	30 Minutes
To Handle	2-3 Hours
Put in Service:	12Hours
VOC:	3.75 Lbs/Gal (448 g/L)
Shelf Life:	1 Year Minimum
Finish:	Satin
Color:	Selected Range

Typical Systems

840 Series may be applied over intact, previously painted surfaces or any of the following Highland International primers:

- a) 84-DF Dry-Fall High Performance Alkyd Primer (2-3 mils) Not for high temperature applications.
- b) 830 Series HiTemp Dry-Fall Primer (2-3 mils) up to 400°F

Surface Preparation

- 1) All surfaces should be clean, dry and free of all foreign contaminants.
- 2) Apply over 860 or 830 Series Primer or over previously painted surfaces that are tightly bonded.

Mixing Instructions and Reduction

- 1) Stir product thoroughly prior to use

- 2) Apply at a rate of 266 to 400 square feet per gallon to obtain the recommended film thickness of 2-3 mils.

Reduce 15-20% with the proper Exempt Reducer:

30-E Warm Weather Dry-Fall Reducer for temperatures 80°F and above.

32-E Cold Weather Dry-Fall Reducer for temperatures below 80°F.

36-E Highland Blending Reducer for extremely hot temperatures (90 °F), to help overspray blend in. (DO NOT EXCEED 5% Reduction with 36-E)

If “fingering” occurs during the spray application, increase the amount of thinner which will decrease the viscosity of the coating. **Do not increase the pump pressure. Maintain 1800 psi allowing +/- 25 psi for surges.**

Application Requirements

To assure Dry-Fall effect, do not apply in temperatures below 45°F, on surfaces below 40°F, or humidity above 85% Rh. When humidity is above 50%, take caution to observe the dry-fall range as it may extend slightly past the 20 foot mark, up to 50 feet depending on other weather variables. **Make sure the equipment being used will give accurate psi readings so the pressure from the pump can be maintained at 1800 psi allowing a maximum +/- 25 psi for surges.** The product will continue curing to temperatures of 30°F. Do not apply in temperatures that are 5°F or less from the dew point. Contact a Highland representative to further review your specific spray conditions.

Method of Application

Airless Gun:	Graco 205-591
Pump:	30:1/45:1/60:1, Gas Pump Acceptable
Tip Range:	3.011 – 5.013
Pump Pressure:	1800 psi allowing +/- 25 psi for surges
Hose:	3/8 inch ID (Do not use whip lines)

Brush or Roller:	Acceptable when reduced with Highland #105 Brush & Roll Reducer
Clean Up:	30-E, 32-E, or 1:1 Blend MEK & Xylene

NOTE: **Electric pumps are NOT recommended. Contact a Highland Representative to review the use of conventional guns.**

Safety Precautions

- 1) Use normal precautions such as gloves, facemasks and barrier creams.
- 2) Adequate ventilation must be maintained. In confined areas, workmen must wear constant flow airline respirators.

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Highland International, Inc.

Engineered Paint Systems

“SPRAY-SAFE”

840 Series
HiTemp Dry-Fall “One Coat” Topcoat

- 3) If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid, and obtain immediate medical attention.
- 4) This product contains **FLAMMABLE** materials. Keep away from sparks and open flames. Observe **NO SMOKING** regulations.
- 5) 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.
- 6) Observe low flash regulations.
- 7) Refer to Material Safety Data Sheet (MSDS) for complete safety instructions.

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