

840 Series "Spray-Safe"

HiTemp Dry-Fall Modified Silicone Topcoat



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.

Tech Specs

Heat Resistance:	350°F Constant w/Excursions to 400°F
Vehicle Type:	Modified Silicone Copolymer
Reducer:	Required for Dry-Fall Effect
In summer:	Highland #30-E Reducer
In winter:	Highland #32-E Reducer
Mix Ratio:	Single Package
Pot Life:	N/A
Volume Solids:	43%
Theoretical Coverage:	689ft ² /gal. @ 1 mil DFT
VOC:	448 g/L
Flash Point:	-8°F (Lowest Flashing Component)
Dry Film Thickness:	2-3 mils DFT

Wet Film Thickness:	4.7-7 mils WFT
Dry-time:	Normal
To Touch:	10 Minutes
Tack Free:	30 Minutes - 1 Hour
To Topcoat:	1 Hours
To Handle:	2-3 Hours
Put in Service:	12 Hours
Shelf Life:	2 Years Minimum
Finish:	Flat
Color:	Light Yellow
Packaging:	5 gallon pails
Storage Temperature:	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 840 Series needs to be thoroughly mixed using mechanical agitation. It is ready to spray after proper mixing and reduction.

Reduction: Reduction is required to achieve the dry-fall effect. Reduce by 15% - 20% with Highland 30-E in ambient temperatures above 80°F or 32-E reducer in ambient temperatures below 80°F.

Highland 840 Series is designed for spray application. 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:	1,800 – 3,000 psi to achieve an even fan pattern.
Hose:	3/8 inch ID
Brush or Roller:	Touch Up Only

Conventional Gun:	DeVilbiss MBC-510
Fluid Tip:	E
Air Cap:	704
Atomizing Pressure:	60 psi
Pot Pressure:	20 psi
Hose:	1/2 inch

Clean Up: Highland #901 Cleaning Solvent

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.

Typical Systems

Highland 840 Series may be applied over a variety of Highland Topcoats:

Apply 1 coat of 840 Series at 2-3 mils DFT as a topcoat over one of the following primer options.

830 Series Primer	HiTemp Dry-Fall Primer high temperature areas up to 400°F
860 Series Primer	HiTemp Non Dry-Fall Primer high temperature areas up to 400°F
84-DF Series Primer	Dry-Fall Primer For ambient "non-high temperature" areas
84 Series Primer	Non Dry-Fall Primer For ambient "non-high temperature" areas

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