

840 Series "Spray-Safe"

HiTemp Dry-Fall Modified Silicone Topcoat



HiTemp Dry-Fall 840 Series is a single package modified silicone copolymer that is limited to less than 3.75 lbs. VOC per gallon. Specifically designed for heavy industrial equipment, HiTemp 840 meets a multitude of high heat demands. Due to the high silicone content, and superior heat and light stable pigmentation compared to competitor products, 840 Series maintains exceptional gloss and color purity in rugged environments as well as when exposed to high temperatures.

Achieve easy one-coat coverage over Highland approved primers (see typical systems for details). 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. Highland 840 Series was engineered specifically to provide maximum service life for all service areas ranging from ambient to 400°F.

Tech Specs

Heat Resistance:	375°F Constant w/ Excursions to 400°F Will lose gloss @ 300°F Will lose color purity @ 350°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 Recoat:	Within 3 Hours If 3 hours or more have passed wait 7 days before topcoating
To Handle:	2-3 Hours
Put in Service:	12 Hours
Shelf Life:	2 Years Minimum
Finish:	Gloss, Satin, Flat
Color:	Standard & Custom
Packaging:	5 gallon pails
Storage Temperature:	20°F - 110°F
Application Temp:	
Ambient:	45°F Minimum
Substrate:	40°F - 120°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.

Hot Application: Not recommended for this product line. Contact your Highland representative for alternate hot apply systems.

Note: 840 Series is not compatible with products containing zinc.

Dry-Fall Application Instructions: 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. Do not apply in temperatures that are 5°F or less from the dew point.

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 psi allowing +/- 25 psi
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

84-DF Series Primer

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

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