

812-LH Series

600°F Silicone Copolymer Direct-to-Metal Coating



HiTemp 812-LH Series is a premium direct-to-metal silicone copolymer high heat coating effective on steel surfaces operating up to 600°F. 812-LH Series provides fantastic color purity, and long lasting corrosion protection to steel surfaces. This unique coating may be used direct-to-metal, or topcoated with a variety of Highland topcoats. 812-LH Series does not require a heat cure.

Tech Specs

Heat Resistance:	600°F Constant
Color Stability:	600°F Constant
Vehicle Type:	Modified Silicone Alkyd
Reducer:	Not Normally Required
In summer if desired:	Highland #100 Reducer
In winter if desired:	Highland #120 Reducer
Mix Ratio:	Single Package
Pot Life:	N/A
Volume Solids:	51%
Theoretical Coverage:	816ft ² /gal. @ 1 mil DFT
VOC:	<370 g/L
Flash Point:	19°F (Lowest Flashing Component)
Dry Film Thickness:	3-5 mils DFT
Wet Film Thickness:	6-10 mils WFT as a DTM

Dry-time:	Normal
To Touch:	30 Minutes
Tack Free:	2 Hours
To Recoat:	1-2 Hours
To Topcoat:	1-2 Hours
To Handle:	2-3 Hours
Put in Service:	12 Hours
Shelf Life:	2 Years Minimum
Finish:	Flat
Color:	Black
Packaging:	1 & 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.

A SSPC-SP1 Solvent Cleaning with Highland 901 Cleaning Solvent is recommended before blasting or other cleaning method.

Carbon Steel:

Best: A SSPC-SP 10 Near White Metal Blast to achieve a low blast profile is recommended.

Good: A SSPC-SP6 Commercial Blast will provide good results in most situations.

Acceptable: While abrasive blast cleaning is preferred, when it is not an option, Hand or Power Tool Cleaning per SSPC-SP2 or SSPC-SP3 may be used and will provide good results.

Galvanized Steel: Contact a Highland representative as recommendation will vary depending on substrate and exposure conditions.

Mixing & Application

Mixing: Highland 812-LH 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 812-LH 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 Minimum
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: 15-20 psi
Hose: 3/8 inch

Clean Up: Highland #901 Cleaning Solvent

Typical Systems

DTM Applications

Apply 1-2 coats of 812-LH Series to achieve 3-5 mils TDFT

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