

# 79-LH Series

## 2-K 300°F Epoxy Primer/DTM



79-LH Series is a multi-purpose, high build epoxy designed for use on a wide variety of surfaces and environments. Due to high film build and adhesion, it is ideal for areas that have deep pitting or marginally prepared surfaces. 79-LH Series operates well under intermittent surface temperatures up to 350°F and continual temperatures to 300°F. Due to its increased heat resistance and chemical resistance, it is an excellent product for Hot Mix Asphalt plant baghouse interiors. It has an eggshell finish that may be applied up to 5 mils DFT for normal conditions and up to 10 mils DFT for baghouse interiors.

### Tech Specs

<b>Heat Resistance:</b>	300°F Constant w/ Excursions to 350°F
<b>Vehicle Type:</b>	Polyamide Adduct Epoxy
<b>Reducer:</b>	Not Normally Required
In summer if desired:	Highland #100 Reducer
In winter if desired:	Highland #120 Reducer
<b>Mix Ratio:</b>	1:1 Base to to Activator
Base:	79-LH-3087
Activator:	79-ALH-100
<b>Pot Life:</b>	6 Hours @ 79°F (Decreases in higher temperatures)
<b>Volume Solids:</b>	56%
<b>Theoretical Coverage:</b>	898ft <sup>2</sup> /gal. @ 1 mil DFT
<b>VOC:</b>	<368 g/L
<b>Flash Point:</b>	54°F (Lowest Flashing Component)
<b>Dry Film Thickness:</b>	3-5 mils DFT for normal conditions

<b>Wet Film Thickness:</b>	5.4-8.9 mils WFT per coat
<b>Dry-time:</b>	<b>Normal</b>
To Touch:	1-2 Hours
Tack Free:	2-3 Hours
To Recoat:	1 Hour; Maximum 5-7 days
To Handle:	6-8 Hours
Put in Service:	12 Hours
<b>Shelf Life:</b>	2 Years Minimum
<b>Finish:</b>	Flat
<b>Color:</b>	Yellow
<b>Packaging:</b>	10 Gallon Kits
<b>Storage Temperature:</b>	20°F - 110°F
<b>Application Temperature:</b>	
Ambient:	45°F Minimum
Substrate:	40°F - 100°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 – Baghouse Interiors/Immersion:

Obtain a 2-3 mil angular blast profile using one of the recommended methods below.

**Best:** A SSPC-SP5/NACE 1 White Metal Blast Cleaning is recommended for maximum coating performance and longevity.

**Good:** A SSPC-SP10/NACE 2 Near White Metal Blast Cleaning provides good results.

#### Carbon Steel - Non-Immersion:

Obtain a 2-3 mil angular blast profile using one of the recommended methods below.

**Best:** A SSPC-SP6/NACE 3 Commercial Blast Cleaning provides good results.

**Good:** A SSPC-SP3 Power Tool Cleaning, SSPC-SP2 Hand Tool Cleaning, or waterjetting per SSPC-SP 12 to WJ-4 will provide good results.

## Galvanized Steel:

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

## Mixing & Application

**Mixing:** Highland 79 Series needs to be thoroughly mixed using mechanical agitation. Mix entire contents of Part "A" Activator (79-ALH-100) with Part "B" Base (79-LH-3087) (1:1 by volume). Mixed material is ready for use after a 30 minute induction period.

**Reduction:** Reduction is not required for standard applications, If desired, reduce by 0% - 10% with Highland 100 or 120 reducer.

**Hot Application:** For Hot Application on surfaces up to 175 ° F, reduce 5% with Highland 101A Hot Application Reducer immediately after the 30 minute induction period.

For Hot Application, apply in multiple coats at 1.5 to 2.0 mils DFT per coat (max) to achieve the desired total DFT. Wait 1 hour between coats and no longer than 24 hours between coats.

Highland 79 Series is designed for spray application. To ensure optimal performance, apply according to the following recommendations.

### Airless

**Gun:** Graco 205-591 (or equivalent)

**Pressure:** Apply at 1800psi minimum

**Tip sizes:** 3.011-4.015

**Hose:** 3/8 inch ID

**Airless Pumps:** 30:1, 45:1, 60:1 or Gas Pumps are recommended

**Brush or Roller:** Both are acceptable for touch up

### Conventional

**Gun:** DeVilbiss MBC-510 (or equivalent)

**Fluid Tip:** E

**Atomizing Pressure:** 70 psi

**Pot Pressure:** 15-20 psi

**Hose:** 1/2 inch ID

**Clean Up:** Clean all equipment with Highland #901 Cleaning Solvent

## Typical Systems

**Direct to Metal:** Apply up to 10 mils TDFT of 79-LH Series in two uniform coats of 3-5 mils per coat directly to prepared steel.

### Primer/Topcoat:

Apply 1 coat of 79 Series at 2-3 mils DFT as a primer then topcoat with one of the following options.

**865 Series Topcoat** High gloss single component silicone alkyd

**840 Series Topcoat** Dry-Fall satin finish silicone alkyd

Highland 79 Series may be topcoated with a variety of Highland Topcoats. Contact your Highland representative for more details.

## 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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