



# Highland International, Inc.



## Technical Data Sheet

### 79-LH Series HiTemp 2-Component High Performance Epoxy DTM (Low HAPs)

### 79-HA-LH Series HiTemp Hot Application 2-Component High Performance Epoxy DTM

**79 Series** is a Direct to Metal Epoxy designed for surface temperatures up to 350°F. Due to its increased heat resistance and chemical resistance, it is an excellent product for HMA 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.

**79-HA Series** has the same properties but by selecting the proper reducer may be applied direct to hot surfaces up to 325°F.

<b>Vehicle Type:</b>	Polyamide Adduct Epoxy	<b>Dry-Time:</b>	<b>Normal Application</b>	<b>Hot Application</b>
<b>Pigmentation:</b>	Lead Free	<b>To Touch</b>	1-2 hours	N/A
<b>Reducers for:</b>	Not normally required	<b>Tack Free</b>	2-3 hours	N/A
<b>Normal Application</b>	#100 for ambient temperature	<b>To Recoat</b>	1 hours	Immediately
<b>Hot Application</b>	#101 for hot surface application	<b>To Handle</b>	6-8 hours	N/A
<b>Mixing Ratio:</b>	1:1 (1 Part Base to 1 Part Activator)	<b>Put in Service</b>	12 hours	N/A
<b>Pot Life:</b>	6 Hr. @ 77°F	<b>V.O.C.:</b>	3.04 lbs. per mixed gallon (364 grams/liter)	
	(Decreases at higher temps)	<b>Shelf Life:</b>	2 year minimum	
<b>Volume Solids:</b>	56%	<b>Finish:</b>	Eggshell	
<b>Theoretical Coverage:</b>	896 Sq. Ft. per Gallon @ 1 mil DFT	<b>Color:</b>	Metallic or yellow	
<b>Flash Point:</b>	106°F lowest flashing component	<b>Weight:</b>	10.5 lbs. per gallon	
<b>Recommended DFT:</b>	4-5 mils normal or	<b>Cure Time:</b>	Full Cure in 7 days	
	8-10 mils for baghouse interiors			

**Preparation: 1)** Minimum surface preparation should be in accordance with SSPC-SP6 Commercial Blast cleaning. When blast cleaning is not an option, SSPC-SP3 Powertool or SSPC-SP2 Wire Brushing is acceptable and provides good results. Also, water jetting in accordance with SSPC-SP12 is acceptable. Surfaces should be dry and free of contaminants.

**2)** Minimum surface preparation should be in accordance with SSPC-SP5 White Metal Blast for immersion or under insulation.

**Application Requirements: 1)** Mix entire contents of part "A" Activator with Part "B" Base (1 to 1 by volume) **2)** Mixed material is ready for use after a 30 minute induction period. **3)** For ambient surface temperature application, apply at a rate of 179 to 224 sq. ft. per gallon to obtain a DFT of 4 to 5 mils. Apply at a rate of 90 to 112 sq. ft. per gallon to obtain a DFT of 8-10 mils.

**4) For Hot Surface Application:** Reduce activated material 20% with Highland #101 Reducer and apply in multiple successive coats to achieve proper DFT.

<b>Method of Application:</b>	<b>Conventional Spray</b>	<b>Airless Spray:</b>		
<b>Gun:</b>	DeVilbiss MBC-510	<b>Gun:</b>	Graco 205-591	
<b>Fluid Tip:</b>	E	<b>Pump:</b>	30:1	
<b>Air Cap:</b>	704	<b>Tip Range:</b>	3.011 to 4.015 @ 1800 psi minimum	
<b>Atomizing Pressure:</b>	70 psi	<b>Hose:</b>	3/8 inch ID	
<b>Pot Pressure:</b>	15-20 psi			
<b>Hose:</b>	1/2 inch ID			
<b>Brush or Roller:</b>	Natural or synthetic bristle recommended			
<b>Clean Up:</b>	After use, clean all equipment with lacquer thinner			

**Safety Precautions: (a)** Use normal precautions such as gloves, facemasks, and barrier creams.

**(b)** Adequate ventilation must be maintained. In confined areas, workmen must wear constant flow

airline respirators. **(c)** If product comes into contact with skin, wash thoroughly with lukewarm

water or diluted Boric Acid, and obtain immediate medical attention. **(d)** This product contains

**FLAMMABLE** materials. Keep away from sparks and open flames. Observe **NO SMOKING** regulations.

**(e)** 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. **(f)** Observe low flash regulations. **(g)** Refer to Material Safety Data Sheet (MSDS)

for complete safety instructions.

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