

# 77-LH BR Series

## HiGrip 2 Component Primer/DTM



HiGrip 77-LH BR Series is a 2 component epoxy specifically formulated to alleviate extensive surface preparation. It may be applied over minimally prepared surfaces (rusty steel and deteriorated previously painted surfaces). HiGrip dries to a flat finish that may be applied up to 6 dry mils per coat. A complex rust inhibitor and resin system serves to assure excellent corrosion protection and adhesion. HiGrip 77-LH BR Series also serves as an excellent tie-coat between Highland zinc-rich primers and Highland topcoats. With the proper reducer selection, it can be applied directly to hot surfaces up to 175°F. It may be topcoated with Highland alkyds, silicone alkyds, acrylics, epoxies, and urethanes.

### Tech Specs

<b>Heat Resistance:</b>	200°F Constant	<b>Wet Film Thickness:</b>	3.6-10.9 mils WFT
<b>Vehicle Type:</b>	Polyamide Adduct Epoxy	<b>Dry-time:</b>	<b>Normal</b>
<b>Reducer:</b>	Not Normally Required	To Touch:	3-4 Hours
Hot Application:	101A Hot Application Reducer	Tack Free:	4 Hours
<b>Mix Ratio:</b>	1:1 Base to Activator	To Recoat:	3 Hours
<b>Pot Life:</b>	6 Hours @ 77°F (Decreases in higher temperatures)	To Handle:	6-8 Hours
		Put in Service:	12 Hours
<b>Volume Solids:</b>	55%	<b>Shelf Life:</b>	2 Years Minimum
<b>Theoretical Coverage:</b>	882ft <sup>2</sup> /gal. @ 1 mil DFT	<b>Finish:</b>	Flat
<b>VOC:</b>	<331 g/L (<2.76 lbs/mixed gal.)	<b>Color:</b>	Standard & Custom
<b>Flash Point:</b>	54°F (Lowest Flashing Component)	<b>Packaging:</b>	10 Gallon Kits
<b>Dry Film Thickness:</b>	2-3 mils DFT for normal conditions 4-6 mils DFT for immersion or other severe conditions.	<b>Storage Temperature:</b>	20°F - 110°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 - 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 77-BR Series needs to be thoroughly mixed using mechanical agitation. Mix entire contents of Part "A" Activator with Part "B" Base (1:1 by volume). Mixed material is ready for use after a 30 minute induction period.

**Reduction:** Reduction is not required for standard applications.

**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 77-BR Series is designed for brush or roller application. To ensure optimal performance, apply according to recommendations below.

**Brush or Roller:** Natural or synthetic bristle

**Clean Up:** Highland #901 Cleaning Solvent

## Typical Systems

Highland 77-BR Series may be topcoated with a variety of Highland Primers:

Apply 1 coat of 84 Series at 2-3 mils DFT as a primer then topcoat with one of the following options.

36 Series Topcoat	Ultra-High gloss 2K urethane
150BR Series Topcoat	High gloss Brush & Roll single component alkyd
150 Series Topcoat	High gloss single component alkyd
865 Series Topcoat	High gloss single component silicone alkyd
840 Series Topcoat	Dry-Fall satin finish silicone alkyd
65R Series Topcoat	Dry-Fall gloss acrylic
68R Series Topcoat	Dry-Fall high gloss urethane

Highland 77-BR 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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