

# 61 Series

## AeroShield Aliphatic Copolymer Urethane DTM



61 Series is "Next Generation Aerospace Technology." It is a corrosion inhibitive, direct-to-metal urethane designed to provide superior protection to a variety of substrates in a one-coat application. Implementing aircraft coating technology, this 2K aliphatic copolymer urethane exhibits outstanding adhesion, chemical resistance, flexibility, impact resistance, UV resistance, and corrosion resistance even over marginally prepared surfaces. Aero-Shield offers the perfect combination of color purity, gloss retention, abrasion resistance, and durability in an easy-to-apply one coat application resulting in a premium finish.

### Tech Specs

<b>Heat Resistance:</b>	For Ambient Services Only
<b>Vehicle Type:</b>	Aliphatic Copolymer Urethane
<b>Reducer:</b>	Not Normally Required
If desired:	Highland #61 Reducer
<b>Mix Ratio:</b>	3:1 Base to Activator
<b>Pot Life:</b>	3 Hours @ 77°F (Decreases in higher temperatures)
<b>Volume Solids:</b>	50%
<b>Theoretical Coverage:</b>	802ft <sup>2</sup> /gal. @ 1 mil DFT
<b>VOC:</b>	<350 g/L
<b>Flash Point:</b>	23°F (Lowest Flashing Component)
<b>Dry Film Thickness:</b>	4-6 mils DFT

<b>Wet Film Thickness:</b>	8-12 mils WFT
<b>Dry-time:</b>	<b>Normal</b>
To Touch:	1 Hour
Tack Free:	2 Hours
To Recoat:	1 Hour
Dry Thru:	6-8 Hours
Full Cure:	5-7 Days
<b>Shelf Life:</b>	2 Years Minimum
<b>Finish:</b>	Semi-Gloss & Satin
<b>Color:</b>	Standard & Custom
<b>Packaging:</b>	4 Gallon Kits
<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:

**Best:** A SSPC-SP6/NACE 3 Commercial Cleaning to achieve a 1 mil maximum profile is recommended for maximum coating performance and longevity.

**Good:** A SSPC-SP3 or SSPC-SP2 Power Tool or Hand Tool Cleaning to achieve a 1 mil maximum profile provides good results.

#### Galvanized Steel:

**Old Galvanized:** Pressure wash or sweep blast to remove salts.

**New Galvanized** A SSPC-SP3 Power Tool, SSPC-SP2 Hand Tool Cleaning, or SSPC-SP6 Commercial Blast to achieve a 1 mil maximum profile.

**Aluminum:** Lightly Sand/Scotch-Brite to ensure "water-break free" surface.

### Mixing & Application

**Mixing:** Highland 61 Series needs to be thoroughly mixed using mechanical agitation. Mix entire contents of Part "A" Activator with Part "B" Base (3:1 by volume). Allow a 5 minute induction period before application or reduction.

**Reduction:** Reduction is not required, if desired, reduce by 0% - 2.5% with Highland #61 reducer. Do not exceed 2.5% reduction.

Highland 61 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 – 5.013  
**Pump Pressure:** 1,800 psi Minimum  
**Hose:** 3/8 inch ID

**Brush or Roller:** Touch up only – Requires reduction with Highland #105 Brush & Roll Reducer.

**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

Highland 61 Series may be applied as a direct to metal at 4-6 mils DFT in 1-2 coats.

Or apply 1 coat of 61 Series at 2-3 mils DFT over an approved of Highland primer.

97 Series Epoxy Mastic	High solids option with fantastic corrosion protection
26 Series Primer	For a fast-dry option
35-S Series Sanding Primer	Provides great corrosion protection
84-LH Series Primer	For great corrosion protection and longevity
860-HF Series Primer	Coatings are compatible
830 Series Primer	Coatings are compatible
475R Series Primer	For added corrosion resistance

A wide range of primers are suitable for use with Highland 61 Series Topcoat. For more options call a Highland representative.

## 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