

# 53 Series

## Fast-Dry Modified Acrylic DTM



53 Series is an extremely fast drying single package Direct to Metal Modified Acrylic that has been specifically formulated for original equipment manufacturers where quick handling of painted equipment is needed to speed the production process. It may be applied over marginally prepared surfaces (light rust & mil scale). 53 Series will exhibit excellent durability, color retention, and corrosion protection. #34-ALH-100 Urethane Modifier may be added to enhance durability and hardness and provides a satin finish.

### Tech Specs

<b>Heat Resistance:</b>	For Ambient Services Only
<b>Vehicle Type:</b>	Modified Acrylic
<b>Reducer:</b>	Not Normally Required
If desired:	Xylene
<b>Mix Ratio:</b>	Single Package
<b>Pot Life:</b>	N/A
<b>Volume Solids:</b>	43%
<b>Theoretical Coverage:</b>	688ft <sup>2</sup> /gal. @ 1 mil DFT
<b>VOC:</b>	<419 g/L
<b>Flash Point:</b>	-4°F (Lowest Flashing Component)
<b>Dry Film Thickness:</b>	3-4 mils DFT
<b>Wet Film Thickness:</b>	7-9.3 mils WFT

<b>Dry-time:</b>	<b>Normal</b>
To Touch:	30 Minutes
Tack Free:	1 Hour
To Recoat:	1 Hour
To Handle:	1-2 Hours
Full Cure:	12 Hours
<b>Shelf Life:</b>	2 Years Minimum
<b>Finish:</b>	Flat
<b>Color:</b>	Black
<b>Packaging:</b>	5 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.

### Mixing & Application

**Mixing:** Highland 53 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 xylene.

Highland 53 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 – 4.015  
**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:** 20 psi  
**Hose:** 1/2 inch

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

## Typical Systems

Apply 3-4 mils of 53 Series in a single uniform coat.

## 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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