

# 90-PT Series

## Pre-Treatment Etching Primer



90-PT Series is a two component modified epoxy pre-treatment primer designed to promote adhesion and corrosion resistance for problematic substrates such as galvanealed or galvanized steel, and aluminum. This fast dry, VOC compliant primer provides long term adhesion and will enhance the corrosion protection of subsequent primer/topcoat systems.

### Tech Specs

<b>Heat Resistance:</b>	For Ambient Services Only
<b>Vehicle Type:</b>	Phenolic Modified Alkyd
<b>Reducer:</b>	Not Normally Required
If desired:	Highland #90-S Reducer
<b>Mix Ratio:</b>	2 Component
Base:	90-PTB-6095
Activator:	90-PTA-100
<b>Pot Life:</b>	6+ Hours at 77°F
<b>Volume Solids:</b>	30%
<b>Theoretical Coverage:</b>	481ft <sup>2</sup> /gal. @ 1 mil DFT
<b>VOC:</b>	<398 g/L (3.32 lbs/gallon)
<b>Flash Point:</b>	16°F (Lowest Flashing Component)
<b>Dry Film Thickness:</b>	.5-1 mils DFT
<b>Wet Film Thickness:</b>	1.7-3.3 mils WFT

<b>Dry-time:</b>	<b>Normal</b>
To Touch:	15 Minutes
Tack Free:	30 Minutes
To Topcoat:	2 hours; 30 days maximum
<b>Shelf Life:</b>	2 Years Minimum
<b>Finish:</b>	Flat
<b>Color:</b>	Translucent Dark Green
<b>Packaging:</b>	5 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.

**New Substrate:** Solvent clean surface with lint-free/dye-free cloth using the wipe on/wipe off method as not to allow solvent to dry over surface. Apply 90-PT as soon as possible after cleaning to minimize further contamination. Tack cloths are not recommended.

**Previously Coated Substrate:** Existing coatings should be tested for lifting. If lifting occurs, removal of the existing coating will be required prior to application. If existing coatings are in-tact, scuff the surface with 220-grit sandpaper to remove gloss and achieve a uniform surface. Solvent clean the surface with lint-free/dye-free cloth using the wipe on/wipe off method as not to allow solvent to dry over surface. Apply 90-PT as soon as possible after cleaning to minimize further contamination. Tack cloths are not recommended.

90-PT is formulated for use on: Galvanized, galvanealed, cold rolled steel, aluminum, or as a tie coat for previously painted surfaces.

## Mixing & Application

**Mixing:** Highland 90-PT Series needs to be thoroughly mixed using mechanical agitation. Mix entire contents of Part "A" Activator (90-PTA-100) with Part "B" Base (90-PTB-6095). No induction period is required - product is ready to spray after proper mixing.

**Reduction:** Reduction is not required, if desired, reduce by 0% - 10% with Highland 90-S reducer.

Highland 90-PT 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 to achieve an even fan pattern.

**Tip sizes:** 3.011-4.011

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

**Hose:** 3/8 inch ID

**Brush or Roller:** Not Recommended

### Conventional

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

**Fluid Tip:** E

**Atomizing Pressure:** 60 psi

**Pot Pressure:** 15-20 psi

**Hose:** 1/2 inch ID

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

## Typical Systems

Highland 90-PT Series may topcoated with variety of Highland Topcoats:

Apply 1 coat of 90-PT Series at .5-1 mil DFT as a primer then topcoat with one of the following options.

150C Series Topcoat

High gloss single component alkyd

865-LH 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

## 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