

# 15-ZN Series

## HiTemp Silicone Copolymer Primer



HiTemp 15-ZN Series is a 2-Component special silicone copolymer zinc primer that cathodically protects steel and is designed for heat affected zones up to 1000°F. 15-ZN Series provides fantastic corrosion protection and service life. It is also available in a Dry-Fall "Spray-Safe" formulation.

### Tech Specs

Heat Resistance:	1000°F Constant
Vehicle Type:	Silicone Copolymer Zinc
Reducer:	Not Normally Required
In summer if desired:	Highland #100 Reducer
In Winter if desired:	Highland #120 Reducer
Mix Ratio:	Two-Component (Base:Zinc Dust)
Base:	15-ZN-4074
Zinc Dust:	15-ZD
Pot Life:	N/A
Volume Solids:	41%
Theoretical Coverage:	656ft <sup>2</sup> /gal. @ 1 mil DFT
VOC:	<420 g/L
Flash Point:	-4°F (Lowest Flashing Component)
Dry Film Thickness:	2-3 mils DFT
Wet Film Thickness:	4.9-7.3 mils WFT

Dry-time:	Normal
To Touch:	1 Hour
Tack Free:	30 Minutes
To Recoat:	1-2 Hours
To Handle:	2 Hours
Put in Service:	12 Hours
Cure Requirements:	4 Hrs. @ Minimum 250°F to Max. 500°F
Shelf Life:	2 Years Minimum
Finish:	Eggshell
Color:	Yellow Gray
Packaging:	5 Gallon Kits
Storage Temperature:	20°F - 110°F
Application Temperature:	
Ambient:	45°F Minimum
Substrate:	40°F - 100°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:

Obtain a 1-2 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-SP6/NACE 3 Commercial Cleaning provides good results.

#### Galvanized Steel:

Contact a Highland representative as recommendation will vary depending on substrate and exposure conditions.

### Mixing & Application

**Mixing:** Mix entire contents of Part "B" Zinc Dust with Part "A" Base under constant agitation. (Zinc Dust must be added to Base. **\*\*Do not add base to zinc dust\*\***)

**Reduction:** Reduction is not required, if desired, reduce by 0% - 10% with Highland 100 or 120 reducer.

15-ZN should be constantly agitated during application.

Highland 15-ZN 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 to achieve an even fan pattern.

**Tip sizes:** .013-.025

**Airless Pumps:** 30:1, 45:1, 60:1

**Hose:** 3/8 inch ID

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

#### **Conventional**

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

**Fluid Tip:** E

**Air Cap:** 704

**Atomizing Pressure:** 60 psi

**Pot Pressure:** 15-20 psi

**Hose:** 3/8 inch ID

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

## Typical Systems

Highland 15-ZN Series may topcoat with variety of Highland Topcoats:

Apply 1 coat of 15-ZN Series at 2-3 mils DFT as a primer then topcoat with one of the following options.

805-LH Series Topcoat

1000°F Silicone Topcoat

899 Series Topcoat

1000°F High Build Silicone Topcoat

15-ZN Series is not compatible with alkyd based coatings.

## 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