

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	Wet Film Thickness:	4.9-7.3 mils WFT
Vehicle Type:	Silicone Copolymer Zinc	Dry-time:	Normal
Reducer:	Not Normally Required	To Touch:	1 Hour
In summer if desired:	Highland #100 Reducer	Tack Free:	30 Minutes
In Winter if desired:	Highland #120 Reducer	To Recoat:	1-2 Hours
Mix Ratio:	Two-Component	To Handle:	2 Hours
Pot Life:	N/A	Put in Service:	12 Hours
Volume Solids:	41%	Shelf Life:	2 Years Minimum
Theoretical Coverage:	656ft ² /gal. @ 1 mil DFT	Finish:	Eggshell
VOC:	<420 g/L	Color:	Yellow Gray
Flash Point:	-4°F (Lowest Flashing Component)	Packaging:	5 Gallon Kits
Dry Film Thickness:	2-3 mils DFT	Storage Temperature:	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:

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 topcoated 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