



# Highland International, Inc.



## Technical Data Sheet

### #830 Series HiTemp Dry-Fall Primer

HiTemp Exterior Dry-Fall Primer is a single package modified silicone copolymer primer designed for heat affected zones up to 450°F. It is limited to 3.5 Lbs. VOC per gallon. The "Dry-Fall" properties of 830 Series allow it to dry to a powder within 10-20 feet from point of application so that it can safely be used in areas where overspray damage to cars and equipment nearby would otherwise be a concern. It offers maximum adhesion and corrosion protection even in limited surface preparation areas. 830 Series may be topcoated with a wide range of topcoats (silicone alkyds, alkyds, urethanes, & acrylics). Its light color allows lead-free orange, yellow & red to be applied in only "One Coat" for proper hiding. To further increase corrosion protection, 830 Series light color is designed to show shadows in the steel surface until proper film thickness has been achieved.

<b>Vehicle Type:</b>	Silicone Copolymer Alkyd	<b>Dry-Time:</b>	<b>Normal Application</b>	<b>Hot Application</b>
<b>Pigmentation:</b>	Zinc Phosphate (Lead & Chromate Free)	<b>To Touch</b>	10 Minutes	N/A
<b>Reducers for</b>		<b>Tack Free</b>	30 Minutes - 1 Hour	N/A
<b>Dry-Fall Application: (Must Reduce Product 15%)</b>	30-E for 80°F and above	<b>Topcoat</b>	1 Hour	N/A
	32-E for 80°F and below	<b>To Handle</b>	2-3 Hours	N/A
		<b>Put in Service</b>	12 Hours	
<b>Mixing Ratio:</b>	Single Package	<b>V.O.C.:</b>	3.5 Lbs. per Gallon (420 Grams/Liter)	
<b>Pot Life:</b>	Not Applicable	<b>Shelf Life:</b>	1 Year Minimum	
<b>Volume Solids:</b>	43%	<b>Finish:</b>	Flat	
<b>Theoretical Coverage:</b>	688 Sq. Ft. per Gallon @ 1 Mil DFT	<b>Color:</b>	Light Yellow	
<b>Flash Point:</b>	Lowest Flashing Component -8°F	<b>Weight:</b>	10-11 Lbs. per Gallon	
<b>Recommended DFT:</b>	2-3 Mils	<b>Cure:</b>	Air Dry	

**Preparation:** Minimum surface preparation should be in accordance with SSPC-SP6 Commercial Blast cleaning when practical.

Where blast cleaning is not practical, SSPC-SP3 Power tool or SSPC-SP2 Wire Brushing is acceptable and provides good results. Also, water jetting in accordance with SSPC-SP12 is acceptable. Surfaces should be dry and free of contaminants.

**Application:** To assure Dry-Fall effect, do not apply in temperatures below 45°F, on surfaces below 40°F, or humidity above 85% .

**Make sure the equipment you are using to spray with will give you accurate PSI readings so that the pressure from the pump can be maintained at 1800 psi allowing a maximum +/- 25 psi for surges.**

The product's curing will slow drastically to temperatures below 40°F.

Do not apply in temperatures that are 5°F or less from the dew point.

**Reduction:** Must reduce 15% with:

#30-E Highland VOC Exempt Warm Weather Dry-Fall Reducer for temperatures 80°F and above

#32-E Highland VOC Exempt Cold Weather Dry-Fall Reducer for temperatures below 80°F

If "fingering" occurs during the spray application, increase the amount of thinner, which decreases the viscosity of the paint.

**Do not increase the pump pressure. Maintain 1800 psi allowing +/- 25 psi for surges.**

<b>Method of Application:</b>		<b>Conventional Spray</b>	<b>Airless Spray:</b>	
<b>Gun:</b>	DeVilbiss MBC-510	<b>Gun:</b>	Graco 205-591	
<b>Fluid Tip:</b>	E	<b>Pump:</b>	30:1	
<b>Air Cap:</b>	704	<b>Tip Range:</b>	.011 - .013	
<b>Atomizing Pressure:</b>	60 psi	<b>Hose:</b>	3/8 inch ID (Do not use whip lines)	
<b>Pot Pressure:</b>	20 psi	<b>Pump Pressure</b>	1800 psi allowing +/- 25 psi	
<b>Hose:</b>	1/2 inch ID			
<b>Brush or Roller:</b>	Reduce 10% Min #105 Reducer			
<b>Clean Up:</b>	After use, clean all equipment with lacquer thinner.			

**Safety Precautions:** (a) Use normal precautions such as gloves, facemasks, and barrier creams. (b) Adequate ventilation must be maintained. In confined areas, workmen must wear constant flow airline respirators. (c) If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid and obtain immediate medical attention.

(d) This product contains FLAMMABLE materials. Keep away from sparks and open flames. Observe **NO SMOKING** regulations. (e) All electrical equipment and installations should conform to NEC regulations. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools, and to wear conductive, non-sparking shoes. (f) Observe low flash regulations. (g) Refer to Material Safety Data Sheet (MSDS) for complete safety instructions

The technical data listed herein has been compiled for your convenience and guidelines, and is based upon our experience and knowledge. However, since we have no control over the use of this information, or this product.

P. O. Box 3564 Boone, NC 28607

Updated 8-5-09

800-444-1438

www.highland-international.com