



HiTemp Dry-Fall 827-HB Series
High-Build 1200°F Inert Multipolymeric Matrix DTM

827-HB Series HiTemp is a unique high-build single package inert multipolymeric matrix coating designed to provide heat stability & withstand severe cyclic conditions up to 1200°F. It is an excellent choice for coating under insulation (CUI), stacks, chemical plant components, refineries and other areas that require corrosion protection and see elevated temperatures up to 1200°F. It is specifically formulated to allow application to marginally prepared surfaces, and may even be applied over tightly adhered rust. 827-HB shows superior thermal shock resistance even when applied in excess of 16 mils TDFT, providing the best characteristics of a high temperature coating in a Dry-Fall “Spray Safe” formula that eliminates overspray worries and meets SS-4, SS-5, CS-6 and CS-8 of NACE SP0198-10.

Vehicle Type:	Inert Multipolymeric Matrix
Reducers:	30-E for Dry-Fall Application > 80°F 32-E for Dry-Fall Application < 80°F 827-HA for Hot Application (contact Highland Rep for Hot Application Parameters)
Mix Ratio:	Single Package
Pot Life:	Not Applicable
Volume Solids:	65%
Theoretical Coverage:	1042 ft ² /gal. @ 1 Mil DFT
Flash Point:	62°F (Lowest Flashing Component)
Recommended DFT:	4-8 mils DFT in standard DTM services 12-16 mils DFT for CUI Services
Dry-time:	
To Recoat:	6 Hours
To Handle	12 Hours
To Topcoat	24 Hours (minimum)
Put in Service:	24 Hours
Cure:	24 Hour Ambient Flash No Cure Schedule Required
Hot Application:	Yes, Consult Highland Technical Service for Hot Application Parameters
VOC:	3.41 lbs per gallon (408 g/L)
Shelf Life:	2 Years from DOM
Finish:	Flat
Color:	Black, Gray, Aluminum

Typical Systems

CUI Services

827-HB: 2 Coats @ 6-8 mils DFT/coat (12-16 mils TDFT)

DTM Services

827-HB: 1 Coat @ 4-8 mils DFT (standard) or 2 Coats @ 4-8 mils DFT per coat to achieve 8-16 mils TDFT (severe)

Primer/Topcoat

827-HB may be used as a primer with Highland 815 Series (up to 500°F) or 899 Series (up to 1000°F)

Performance Data

Thermal Shock, Adhesion, Salt Spray, Cryogenic and CUI test data is available for various substrate preparations. Please ask your Highland representative for additional data pertaining to your specific project requirements.

Surface Preparation

- 1) All surfaces to be painted should be dry and free of all foreign contaminants.
- 2) Minimum acceptable surface preparation should be in accordance with SSPC-SP6 Commercial Blast in most situations. When used under insulation, an SSPC-SP 10 Near White Metal Blast is recommended.
- 3) A low profile blast of 1.5 – 3.0 mils is preferred.
- 4) When abrasive blast cleaning is not an option, Hand or Power Tool Cleaning per SSPC-SP2 or SSPC-SP3 may be used.

Mixing and Application Requirements

- 1) Stir product thoroughly prior to use using mechanical agitation.
- 2) For a 2 coat application, spray 4-8 mils DFT, or 6-12 wet mils per coat to achieve recommended TDFT.
- 3) For a 1 coat application, spray 4-8 mils DFT, or 6-12 wet mils in one coat to achieve recommended DFT.
- 4) For Dry-Fall Application, you must reduce 10-20% with appropriate Highland Reducer.

Method of Application

Conventional Gun:	DeVilbiss MBC-510
Fluid Tip:	E
Air Cap:	704
Atomizing Pressure:	70 psi
Pot Pressure:	60 psi
Hose:	3/8 inch ID
Airless Gun (Standard):	Graco 205-591
Pump:	30:1/45:1/60/1, Gas Pump is Acceptable
Tip Range:	3.015 to 4.021
Pump Pressure:	3000 psi
Hose:	3/8 inch ID
Airless Gun (Dry-Fall):	Graco 205-591
Pump:	30:1/45:1/60/1, Gas Pump is Acceptable
Tip Range:	3.015 to 5.015
Pump Pressure:	1800-2100 psi
Hose:	3/8 inch ID, No Whip Lines
Brush or Roller:	Reduce 5-10% with Highland #105 Reducer
Clean Up:	Clean all equipment with suitable solvent

The technical data listed herein has been compiled for your convenience and guidelines are based upon our experience and knowledge. However, since we have no control over the use of this information or this product, no warranty expressed or implied is intended or given. Highland assumes no responsibility whatsoever for coverage, performance or any other damage, including injuries from use of this information or products recommended herein.



Safety Precautions

- 1) Use normal precautions such as gloves, facemasks and barrier creams.
- 2) Adequate ventilation must be maintained. In confined areas, workmen must wear constant flow airline respirators.
- 3) If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid, and obtain immediate medical attention.
- 4) This product contains **FLAMMABLE** materials. Keep away from sparks and open flames. Observe **NO SMOKING** regulations.
- 5) 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.
- 6) Observe low flash regulations.
- 7) Refer to Material Safety Data Sheet (MSDS) for complete safety instructions.

The technical data listed herein has been compiled for your convenience and guidelines are based upon our experience and knowledge. However, since we have no control over the use of this information or this product, no warranty expressed or implied is intended or given. Highland assumes no responsibility whatsoever for coverage, performance or any other damage, including injuries from use of this information or products recommended herein.