INFERNEX® LB-1100 Technical Data Sheet

PRODUCT DESCRIPTION

A Silicone heat resistant coating designed for superior performance over ferrous and non-ferrous metal surfaces. Intended to be used as a direct to metal finish or topcoat over one of FORREST's high temperature primers including **INFERNEX® LP-1100** (55P201) for maximum performance.

Model number: LB-1100
Part Number: 55B290

Color: Black
Sheen: Satin

Benefits

- Excellent pre-thermal and post-thermal properties
- Excellent corrosion resistance
- Aerosol touch-up available; p/n 1A51H290

PRODUCT AND PERFORMANCE DATA

Product Data

Property	Result
Volume solids (%)	54 ± 2
Weight solids (%)	67 ± 2
VOC	418 g/l ± 2
Theoretical Coverage at 1.0 mil (25.4 µm)	866 ft²/ gal
Recommended dry film thickness	1.5 – 2 mils
Recommended wet film thickness	3 - 4 mils
Dry to handle	24 hours

Performance Data (Pre thermal properties, after 435°F cure)*

Test Method	Standard	Result
Gloss @ 60°	ASTM D523-14	1 – 5
Adhesion	ASTM D3359	4B+
Pencil Hardness	ASTM D3363	H+
Salt Fog	ASTM B117/D1654	Pass 24 hours
Solvent Resistance	ASTM D4752	100+ MEK rub

*All testing performed with **INFERNEX® LB-1100 topcoat over INFERNEX® LP-1100 primer**

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Coating Post Burn Performance Results – Top Coat w/Primer *

Temperature Tested	Color change after 8 hour burn	ASTM D3359 Cross Hatch Adhesion	ASTM D3363 Pencil Hardness
800°F (427°C)	Pass	4B+	3H+
1100°F (593°C)	Pass	4B	3H+

Cyclic Temp Resistance Adhesion & Color	792°F (425°C)	3 Cycles	Pass

*Testing performed on unpolished ¼" cold rolled steel

Applicable substrates: Cold Rolled Steel, Hot Rolled Steel, Aluminized, and 304 Stainless Steel.

SURFACE PREPARATION

Pre-cleaning:
Clean all surfaces to be coated in accordance with SSPC-SP-1, Solvent Cleaning prior to additional surface preparation or coating application. Surface must be clean, dry and free of any dirt, dust, oil, and all other visible contaminates.

Surface Preparation

Recommended	SSPC SP 6 (commercial blast cleaning)
Minimum	SSPC SP 1 (solvent cleaning)

Suitable Primers: FORREST's **INFERNEX® LP-1100 primer** (55P201) or 54H050

MIXING AND THINNING

Mix Directions
Stir thoroughly before and occasionally during use.

Thinning Directions
Product packaged ready to apply. If needed thin up to 10% maximum with Xylene or Toluene.

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APPLICATION

Application Parameters

Relative Humidity	30 – 65%
Minimum Temperature	50°F (10°C)
Maximum Temperature	80°F (27°C)

Cure Schedule

For full cure, substrate temperature must reach 435° F for 45 min

Temperature	435°F (204°C)
Time	45 minutes

Application methods
The product can be applied by

Spray
Airless/Air Assist spray: 0.009” - 0.013” orifice size

Conventional/HVLP spray: 1.3 mm – 1.8 mm

*Aerosol touch-up p/n 1A51H290. Contact your Technical Sales Representative for additional information.

STORAGE

The product must be stored in accordance with local and national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 73°F (23 °C) = minimum of 12 months*

*When kept in recommended storage condition and original unopened containers.

CAUTION
Adequate health and safety precautions should be observed during storage, handling, use and curing periods.
READ SAFETY DATA SHEETS BEFORE USING THIS PRODUCT

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DISCLAIMER

The technical data and suggestions for use in this product data sheet are currently correct to the best of our knowledge, but are subject to change without notice. Because application and conditions vary, and are beyond our control, we are not responsible for results obtained in using this product, even when used as suggested. The user should conduct tests to determine the suitability of the product for the intended use under then existing conditions. Our liability for breach of warranty, strict liability in tort, negligence or otherwise is limited exclusively to replacement of the product or refund of its price. Under no circumstances are we liable for incidental or consequential damages.

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