INFERNEX® LZ-1100 Series Technical Data Sheet

PRODUCT DESCRIPTION

A Silicone/Zinc high heat resistant coating designed for application on ferrous and properly prepared non-ferrous metals with exterior exposure. This product is also sold as 251H031, 251H103, 251H201, 251H050, 251H400, 251H800 and 251H219.

Color: Silver, Off White, Charcoal, Metallic Brown, Sky Blue, Sand, and Black
Sheen: Flat

PRODUCT AND PERFORMANCE DATA

Product Data

Property	Result
Volume solids (%)	29 - 33 ± 2
Weight solids (%)	50 – 55 ± 2
VOC	420 g/l 3.5 lb/gal
Recommended wet film thickness	6.5 - 9 mils 165 – 229 µm
Recommended dry film thickness	2 - 3 mils 51 – 76 µm
Theoretical Coverage @ 1.0 mil (25.4 µm)	508 ft²/ gal 12.5 m²/L
Viscosity	65 – 70 KU
Dry to handle	30 minutes

Performance Data

Test Method	Standard	Result
Gloss @ 60°	ASTM D523-14	0 – 5
Salt Fog	ASTM B117/D1654	200 hours
Accelerated Weathering	ASTM D4587-11	100% gloss retention 300 hours QUV A
Adhesion	ASTM D3359	4B 4B*

*Tested on air dried 251H219 after 48 hours

Coating Post Burn Performance Results

Test	Temperature Tested	Time	Result	Method
Color after burn	1100°F (593°C)	8 hours	Pass	Muffle Furnace
Adhesion after burn	1200°F (648°C)	1 hour	4B	Muffle Furnace

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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 5 (white metal blast cleaning)
Minimum	SSPC SP 6 (commercial blast cleaning)

- Blasting should attain a profile of 0.5 mils (13 µm)– 0.75 mils (19 µm)

MIXING AND THINNING

Mix Directions
Mechanically mix the product for 10-15 minutes before using and occasionally during use, as the zinc in the coating will sink to the bottom of the pail.

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

APPLICATION

Apply only to sandblasted steel substrate, and within 8 hours of sandblasting or before surface rust begins to occur

Application Parameters

Relative Humidity	50% ±10
Minimum Temperature	50°F (10°C)
Maximum Temperature	80°F (27°C)

Application methods
The product can be applied by:

Spray
Airless or air assist spray: 0.009” - 0.013” orifice size
HVLP/Conventional spray: 1.3 mm – 1.8 mm

Aerosol touch-up available upon request. Contact your Technical Sales Representative for additional information.

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Force Cure Schedule

Temperature	400°F (204°C)	450°F (232°C)
Time	30 minutes	10 minutes

We recommend allowing this product to air dry for 4 hours before putting into service.

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

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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