INFERNEX® L-1100 Technical Data Sheet

PRODUCT DESCRIPTION

A modified silicone heat resistant coating designed for rapid curing and good working properties over ferrous and non-ferrous metal surfaces. This product also sold as 54H204.

Color: Black
Sheen: Flat

PHYSICAL PROPERTIES

Product Data

Property	Result
Volume solids (%)	18 ± 2
Weight solids (%)	27 ± 2
VOC	716 ± 2 g/l 6 ± 0.3 lb/gal
Recommended dry film thickness	0.8 to 1.2 mils 20.3 to 30.5 µm
Theoretical Coverage @ 1.0 mil (25.4 µm)	300 ft²/ gal 7.36 m²/L
Viscosity (#3 Zahn Cup)	27 – 30 seconds
Dry to handle	30 minutes

Performance Data

Test Method	Standard	Result
Gloss @ 60°	ASTM D523-14	5-10
Pencil Hardness	ASTM D3363	H
Salt Fog	ASTM B117/D1654	240 hours
Accelerated Weathering	ASTM D4587-11	100% gloss retention 300 hours QUV A
Impact Resistance	ASTM D2794-90	>100 in-lbs*
Mandrel Bend Test	ASTM D522 Method B	Pass - 3/8 inch Pass - 3/8 inch*

*Tested on air dried product after 48 hours

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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	1100°F (593°C)	8 hours	5B	Muffle Furnace

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 2 or SP 3 (hand or power tool cleaning)

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.

APPLICATION

Application Parameters

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

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

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Force Cure Schedule

Temperature	200°F (93°C)
Time	20 minutes

Application methods
The product can be applied by

Spray
Airless or air assist spray: 0.011 – 0.015 orifice size (in)

Conventional spray: 1.0 – 1.8 orifice size (mm)

Aerosol touch-up available upon request. 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) = up to 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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