INTRODUCING

# INFERNEX®

# THE HOTTEST THING IN HIGH TEMP PROTECTION.

After decades as the industry leader with Stove Bright®, we're taking high heat protective coatings to the next level. Our new INFERNEX® collection not only meets and exceeds global industry standards, but it solves your exterior adhesion and ultraviolet challenges while providing long-term corrosion resistance. INFERNEX® is specially formulated to help put your mind at ease. While turning up the heat on the competition.







HIGH HEAT | POWDER | LIQUID

**TO LEARN MORE ABOUT HOW INFERNEX® CAN SOLVE YOUR HIGH HEAT COATING CHALLENGES, CONTACT US TODAY.**

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FORREST Technical Coatings





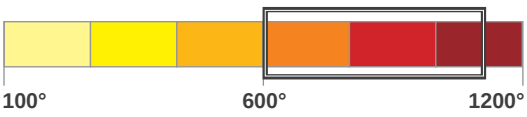


# INFERNEX®
# PROVEN HIGH HEAT PERFORMANCE.

Engineers and equipment manufacturers have trusted Forrest Technical Coatings for years as a world leader in high performance powder coatings. Our latest comprehensive collection, INFERNEX®, is specially formulated to solve your exterior exposure challenges by providing a cost-efficient application that delivers on appearance and corrosion resistance with low environmental impact.

Forrest Technical Coatings is the respected global manufacturer and distributor of the high temperature Stove Bright® brand since 1978. We bring the same innovative chemical engineering and experience to the INFERNEX® product line.

**TO LEARN MORE ABOUT HOW INFERNEX® POWDER COATINGS CAN SOLVE YOUR HIGH HEAT CHALLENGES, CONTACT US TODAY.**




WITHSTANDS TEMPERATURES UP TO 1100°F (593°C)

FORREST Technical Coatings

FORRESTPAINT.COM/INFERNEX

# INFERNEX® POWDER COATINGS

## APPLICATIONS

Specifically formulated for optimum performance in harsh environments such as exhaust systems, industrial silencers, engine parts and other high temperature applications.

## PERFORMANCE

INFERNEX® passes a full battery of performance tests establishing superior high-heat standards for ferrous and non-ferrous substrates. These products deliver reliable corrosion resistance combating the harshest weathering conditions. Their physical properties span flat and satin gloss, smooth to textured finishes, and remarkable hardness. Count on INFERNEX® powder coatings to meet temperature resistant needs ranging from 600° F to 1100° F (315° C – 593° C).

For optimal performance characteristics, powder coatings must be applied over properly-prepared ferrous and non-ferrous substrates.

## INFERNEX® BENEFITS

- Excellent over-bake stability
- Excellent corrosion resistance
- Very good weathering properties
- Smooth & textured finishes
- Higher transfer efficiency (Reclaim)

# THE INFERNEX® LINE

### INFERNEX® PS-1000 | (1PC-654-2199)

Originally developed for exhausts, PS-1000 has earned its reputation for decades as the workhorse for protecting exhaust systems, engines, and silencers. It's recognized by its black smooth finish and ability to withstand temperatures up to 1000° F (537° C). It also features excellent application properties, film quality, and superior over-bake stability when applied to properly-prepared ferrous and non-ferrous substrates.

Also available: INFERNEX® PS-1000 Silver | (1PC-654-0199)

### INFERNEX® PSS-1000 | (1PC-653-2900)

INFERNEX® PSS-1000 powder coating was formulated to produce a smooth satin black finish to showcase designer components. This powder is specifically designed for protective applications where exterior durability is required. It applies well to ferrous and non-ferrous substrates with an outstanding film quality and tolerates temperatures up to 1000° F (537° C).

### INFERNEX® PT-1000 | (1PC-654-2184)

INFERNEX® PT-1000 was developed to produce a slightly textured black coating with great pre- and post-burn adhesion. This satin powder coating performs well at a continuous 800° F (426° C) and offers a balance of function and appearance. Performance testing of an Hr 1000° F burn resulted in very good adhesion. **Performance testing of one hour at 1000° F resulted in very good adhesion.**

### INFERNEX® PS-800 | (1PC-654-2502)

Widely used successfully in Europe for many years as a muffler coating, INFERNEX® PS-800 has a beautiful satin jet black and smooth sheen with outstanding hardness. It performs at a peak temperature of 800° F (426° C) for exterior exposures.

### INFERNEX® PS-600 | (1PC-654-2186)

PS-600 was engineered for salt fog resistance at a peak temperature of 600° F (315° C). For medium temperature projects, this powder has a nice smooth finish in a flat black when applied to properly-prepared ferrous and non-ferrous substrates. It combines great aesthetics with corrosion resistance.

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FORREST Technical Coatings

# INFERNEX® PS-1000 | (IPC-654-2199)

Originally developed for exhausts, PS-1000 has earned its reputation for decades as the workhorse for protecting exhaust systems, engines, and silencers. It's recognized by its black smooth finish and ability to withstand temperatures up to 1000° F (537° C). It also features excellent application properties, film quality, and superior over-bake stability when applied to properly-prepared ferrous and non-ferrous substrates.

| INFERNEX® PS-1000 SPECIFICATIONS (Black) \| (1PC-654-2199) | | | |
|---|---|---|---|
| Peak Temp | 1000° F (537° C) | Continuous | 880° F (471° C) |
| Adhesion (1 Hr) Peak Burn<br>ASTM D3359 | 5B | Color Change (8 Hrs) | PASS |
| 240 Hrs Salt Spray<br>ASTM B117/D1654 | PASS | Gloss @ 60°<br>ASTM D523-14 | 12-18 |
| Accelerated Weathering (QUV A)<br>ASTM D4587-11 | dE 0.11<br>300 Hrs | Pencil Hardness<br>ASTM 3363 | 2H |
| Impact Resistance<br>ASTM D2794-90 | 60 in-lbs | Cure Cycle: 20 minutes @ 450° F (232° C) | |

**Also available:**

| INFERNEX® PS-1000 SPECIFICATIONS (Silver) \| (1PC-654-0199) | | | |
|---|---|---|---|
| Peak Temp: | 1100° F (593° C) | Continuous | 880° F (471° C) |
| Adhesion (1 Hr) Peak Burn<br>ASTM D3359 | 4B | Color Change (8 Hrs) | PASS |
| 240 Hrs Salt Spray<br>ASTM B117/D1654 | PASS | Gloss @ 60°<br>ASTM D523-14 | 12-18 |
| Accelerated Weathering (QUV A)<br>ASTM D4587-11 | dE 0.13<br>300 Hrs | Pencil Hardness<br>ASTM 3363 | >H |
| Impact Resistance<br>ASTM D2794-90 | 10 in-lbs | Cure Cycle: 20 minutes @ 450° F (232° C) | |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for FORREST INFERNEX®

Specifically formulated for optimum performance under harsh conditions for:

- Exhaust systems
- Industrial silencers
- Engine parts
- Other high temperature applications

## Benefits of FORREST INFERNEX®

- Excellent over-bake stability
- Excellent corrosion resistance
- Very good weathering properties
- Smooth & textured finishes
- Higher transfer efficiency (Reclaim)

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FORREST Technical Coatings

## PRODUCT DESCRIPTION

A decorative powder coating that withstands high temperatures for general use on ferrous and non-ferrous metal. This product is also sold as 1PC-654-2199.

**Benefits**

High temperature resistance
Excellent application properties and film quality
Excellent over-bake stability

## APPLICATION

**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 that could potentially interfere with adhesion of the coating.

**Surface preparation:**

The overall performance of the coating system is largely dependent on the nature of the substrate and the type and quality of the surface preparation. Surfaces to receive coating may be prepared using liquid pretreatment designed for high temperature service. For optimal results, we recommend abrasive blast cleaning in accordance with SSPC SP-10/NACE #2, ISO SA 2.5, anchor profile 0.75 to 1.5 mils (19.1 to 38.1 microns). Before using phosphate pretreatments, contact your supplier for temperature limitations. Substrates also have structural physical temperature limits that must be observed.

**Powder Application Conditions**

| Cure Schedule | Temperature | Time |
|---|---|---|
| | 450°F (232°C) | 20 minutes |

| Film Build | Minimum Thickness | Maximum Thickness |
|---|---|---|
| | 1.5 mils (38.1 µm) | 2.5 mils (63.5 µm) |

*Other curing schedules may be used upon technical approval.
*Cure schedule is based on substrate temperature.

**Equipment**

Electrostatic application to room temperature substrate is recommended. Suitable for Corona charging equipment, reduced voltages can improve coating film thickness uniformity. This product may be applied to warm substrate for increased film thickness.

## APPEARANCE

**Color:** Black
**Gloss:** Satin
**Finish:** Smooth

If the significant surface is too small or unsuitable for the gloss to be measured with the glossmeter, the gloss should be compared visually with the reference sample.

## POWDER PROPERTIES

| Property | Result |
|---|---|
| Specific Gravity (S.G) | 2.1 +/- 0.05 |
| Theoretical Coverage at 1 mil (25.4 µm) | 91.9 ft²/lb (18.8 m²/kg) |

**Storage**
Keep in a dry cool area. Maximum temperature of 77°F (25 °C) and maximum relative humidity 60%. If stored longer than 12 months a quality test is recommended.

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

## PERFORMANCE

The technical data provided below are typical for this product when applied as follows:

Substrate: Cold Rolled Steel

Film thickness: 1.5-2.5 mils (38.1 - 63.5 µm)

Typical values when tested.

| Property | Standard | Result |
|---|---|---|
| Gloss @ 60° | ASTM D523-14 | 12 - 18 |
| Adhesion | ASTM D3359 | 5B |
| Pencil Hardness | ASTM D3363 | 2H |
| Impact Resistance | ASTM D2794-90 | 60 in-lbs |
| Salt Spray | ASTM B117/D1654 | 240 + hours |

| | | |
|---|---|---|
| Accelerated Weathering | ASTM D4587-11 | 70% gloss retention<br>300 Hrs (QUV A) |

Coating Post Burn Performance Results

| Test | Temperature Tested | Time | Result | Method |
|---|---|---|---|---|
| Color after burn (continuous) | 880°F (471°C) | 8 hours | Pass | Muffle Furnace |
| Adhesion after burn (peak) | 1000°F (537°C) | 1 hour | 4B | Muffle Furnace |

## 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.

# INFERNEX® PSS-1000 | (IPC-653-2900)

INFERNEX® PSS-1000 powder coating was formulated to produce a smooth satin black finish to showcase designer components. This powder is specifically designed for protective applications where exterior durability is required. It applies well to ferrous and non-ferrous substrates with an outstanding film quality and tolerates temperatures up to 1000° F (537° C).







| INFERNEX® PSS-1000 \| (1PC-653-2900) | | | |
|---|---|---|---|
| Peak Temp | 1000° F (537° C) | Continuous | 880° F (471° C) |
| Adhesion (1 Hr) Peak Burn<br>ASTM D3359 | 4B | Color Change (8 Hrs) | PASS |
| 240 Hrs Salt Spray<br>ASTM B117/D1654 | PASS | Pencil Hardness<br>ASTM 3363 | H |
| Accelerated Weathering (QUV A)<br>ASTM D4587-11 | dE 0.44<br>300 Hrs | Impact Resistance<br>ASTM D2794-90 | 40 in-lbs |
| Gloss @ 60°<br>ASTM D523-14 | 25-35 | Cure Cycle: 20 minutes @ 450° F (232° C) | |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for FORREST INFERNEX®

Specifically formulated for optimum performance under harsh conditions for:

- Exhaust systems
- Industrial silencers
- Engine parts
- Other high temperature applications

## Benefits of FORREST INFERNEX®

- Excellent over-bake stability
- Excellent corrosion resistance
- Very good weathering properties
- Smooth & textured finishes
- Higher transfer efficiency (Reclaim)

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FORREST Technical Coatings

## PRODUCT DESCRIPTION

A decorative powder coating that withstands high temperatures for general use on ferrous and non-ferrous metal. This product is also sold as 1PC-653-2900.

**Benefits**

High temperature resistance
Excellent application properties and film quality
Excellent over-bake stability
Excellent application properties and film quality, thin film extends coverage per pound

## APPLICATION

**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 that could potentially interfere with adhesion of the coating.

**Surface preparation:**

The overall performance of the coating system is largely dependent on the nature of the substrate and the type and quality of the surface preparation. Surfaces to receive coating may be prepared using liquid pretreatment designed for high temperature service. For optimal results, we recommend abrasive blast cleaning in accordance with SSPC SP-10/NACE #2, ISO SA 2.5, anchor profile 0.75 to 1.5 mils (19.1 to 38.1 microns). Before using phosphate pretreatments, contact your supplier for temperature limitations. Substrates also have structural physical temperature limits that must be observed.

**Powder Application Conditions**

| Cure Schedule | Temperature | Time |
|---|---|---|
| | 450 °F (232 °C) | 20 minutes |

| Film Build | Minimum Thickness | Maximum Thickness |
|---|---|---|
| | 1.5 mils (38.1 µm) | 2.5 mils (63.5 µm) |

*Other curing schedules may be used upon technical approval.
*Cure schedule is based on substrate temperature.

**Equipment**

Electrostatic application to room temperature substrate is recommended. Suitable for Corona charging equipment, reduced voltages can improve coating film thickness uniformity. This product may be applied to warm substrate for increased film thickness.

## APPEARANCE

**Color:** Black
**Gloss:** Semi Gloss
**Finish:** Smooth

If the significant surface is too small or unsuitable for the gloss to be measured with the glossmeter, the gloss should be compared visually with the reference sample.

## POWDER PROPERTIES

| Property | Result |
|---|---|
| Specific Gravity (S.G) | 2.01 +/- 0.05 |
| Theoretical Coverage at 1 mil (25.4 µm) | 96 ft²/lb (19.66 m²/kg) |

**Storage**

Keep in a dry cool area. Maximum temperature of 77°F (25 °C) and maximum relative humidity 60%. If stored longer than 12 months a quality test is recommended.

**CAUTION**

Adequate health and safety precautions should be observed during storage, handling, use and curing periods.

**READ MATERIAL SAFETY DATA SHEETS BEFORE USING THIS PRODUCT**

## PERFORMANCE

The technical data provided below are typical for this product when applied as follows:

Substrate: Cold Rolled Steel

Film thickness: 1.5 – 2.5 mils (38.1 – 63.5 µm)

Typical values when tested.

| Property | Standard | Result |
|---|---|---|
| Gloss @ 60° | ASTM D523-14 | 25 - 35 |
| Adhesion | ASTM D3359 | 4B |
| Impact Resistance | ASTM D2794-90 | >40 in-lbs |
| Pencil Hardness | ASTM D3363 | H |

| | | |
|---|---|---|
| Salt Spray | ASTM B117/D1654 | 240 Hours |
| Accelerated Weathering | ASTM D4587-11 | ΔE= 0.44<br>300 Hours (QUV A) |

Coating Post Burn Performance Results

| Test | Temperature Tested | Time | Result | Method |
|---|---|---|---|---|
| Color after burn | 880 °F (471 °C) | 8 Hours | Pass | Muffle Furnace |
| Adhesion after burn | 1000 °F (538 °C) | 1 Hour | 4B | Muffle Furnace |

## 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.

# INFERNEX® PT-1000 | (IPC-654-2184)

INFERNEX® PT-1000 was developed to produce a slightly textured black coating with great pre- and post-burn adhesion. This satin powder coating performs well at a continuous 800° F (426° C) and offers a balance of function and appearance. Performance testing of one hour at 1000° F resulted in very good adhesion.







| INFERNEX® PT-1000 | (IPC-654-2184) | | |
|---|---|---|---|
| Peak Temp | 1000° F (537° C) | Continuous | 800° F (426° C) |
| Adhesion (1 Hr) Peak Burn ASTM D3359 | 4B | Color Change (24 Hrs) | PASS |
| 500 Hrs Salt Spray ASTM B117/D1654 | PASS | Pencil Hardness ASTM 3363 | >2H |
| Accelerated Weathering (QUV A) ASTM D4587-11 | dE 0.43 300 Hrs | Impact Resistance ASTM D2794-90 | 60 in-lbs |
| Gloss @ 60° ASTM D523-14 | 15-25 | Cure Cycle: 20 minutes @ 400° F (204° C) | |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for FORREST INFERNEX®

Specifically formulated for optimum performance under harsh conditions for:

- Exhaust systems
- Industrial silencers
- Engine parts
- Other high temperature applications

## Benefits of FORREST INFERNEX®

- Excellent over-bake stability
- Excellent corrosion resistance
- Very good weathering properties
- Smooth & textured finishes
- Higher transfer efficiency (Reclaim)

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FORREST Technical Coatings

FORREST Technical Coatings

# INFERNEX® PT-1000 Technical Data Sheet

## PRODUCT DESCRIPTION

A decorative powder coating that withstands high temperatures for general use on ferrous and non-ferrous metal. This product is also sold as 1PC-654-2184.

**Benefits**

Coating has good UV resistance for outdoor use

Thin film extends coverage per pound

Excellent over-bake stability

Designed to be more compatible and to reduce cross contamination with other coatings

*We recommend performing tests in house to assure compatibility with your current coatings.

## APPLICATION

**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 that could potentially interfere with adhesion of the coating.

**Surface preparation:**

The overall performance of the coating system is largely dependent on the nature of the substrate and the type and quality of the surface preparation. Surfaces to receive coating may be prepared using liquid pretreatment designed for high temperature service. For optimal results, we recommend abrasive blast cleaning in accordance with SSPC SP-10/NACE #2, ISO SA 2.5, anchor profile 0.75 to 1.5 mils (19.1 to 38.1 microns). Before using phosphate pretreatments, contact your supplier for temperature limitations. Substrates also have structural physical temperature limits that must be observed.

**Powder Application Conditions**

| Cure Schedule | Temperature | Time |
|---|---|---|
| | 400 °F (204 °C) | 20 minutes |

| Film Build | Minimum Thickness | Maximum Thickness |
|---|---|---|
| | 1.5 mils (38.1 µm) | 2.5 mils (63.5 µm) |

*Other curing schedules may be used upon technical approval.

*Cure schedule is based on substrate temperature.

**Equipment**

Electrostatic application to room temperature substrate is recommended. Suitable for Corona charging equipment, reduced voltages can improve coating film thickness uniformity. This product may be applied to warm substrate for increased film thickness.

## APPEARANCE

**Color:** Black
**Gloss:** Satin
**Finish:** Textured

If the significant surface is too small or unsuitable for the gloss to be measured with the gloss meter, the gloss should be compared visually with the reference sample.

## POWDER PROPERTIES

| Property | Result |
|---|---|
| Specific Gravity (S.G) | 1.48 +/- 0.05 |
| Theoretical Coverage at 1 mil (25.4 µm) | 130 ft.²/lb (26.7 m²/kg) |

**Storage**
Keep in a dry cool area. Maximum temperature of 77°F (25 °C) and maximum relative humidity 60%. If stored longer than 12 months a quality test is recommended.

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

## PERFORMANCE

The technical data provided below are typical for this product when applied as follows:

Substrate: Cold Rolled Steel

Film thickness: 1.5 – 2.5 mils (38.1 – 63.5 µm)

Typical values when tested.

| Property | Standard | Result |
|---|---|---|
| Gloss @ 60° | ASTM D523-14 | 15 - 25 |
| Adhesion | ASTM D3359 | 4B |
| Impact Resistance | ASTM D2794-90 | 60 in-lbs |
| Pencil Hardness | ASTM D3363 | >2H |
| Salt Spray * | ASTM B117/D1654 | 336 hours |
| Accelerated Weathering | ASTM D4587-11 | ΔE= 0.43<br>300 Hours (QUV A) |

Coating Post Burn Performance Results

| Test | Temperature Tested | Time | Result | Method |
|---|---|---|---|---|
| Color after burn | 800 °F (427 °C) | 24 hours | Pass | Muffle Furnace |
| Adhesion after burn | 1000 °F (538 °C) | 1 hour | 4B | Muffle Furnace |

**Due to the composition and surface structure required to make a textured finish, salt fog performance can vary. The stated Salt Spray Hours is a conservative estimate after several tests and results may vary depending on application techniques.*

## DISCLAIMER

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# INFERNEX® PS-800 | (IPC-654-2502)

Widely used successfully in Europe for many years as a muffler coating, INFERNEX® PS-800 has a beautiful satin jet black and smooth sheen with outstanding hardness. It performs at a peak temperature of 800° F (426° C) for exterior exposures.







| INFERNEX® PS-800 | (IPC-654-2502) | | |
|---|---|---|---|
| Peak Temp | 800° F (426° C) | Continuous | 800° F (426° C) |
| Adhesion (8 Hrs) | 4B | Color Change (8 Hrs) | PASS |
| 240 Hrs Salt Spray<br>ASTM B117/D1654 | PASS | Pencil Hardness<br>ASTM 3363 | >2H |
| Accelerated Weathering (QUV A)<br>ASTM D4587-11 | dE 0.39<br>300 Hrs | Impact Resistance<br>ASTM D2794-90 | 40 in-lbs |
| Gloss @ 60°<br>ASTM D523-14 | 25-35 | Cure Cycle: 10 minutes @ | 450° F (232° C) |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for FORREST INFERNEX®

Specifically formulated for optimum performance under harsh conditions for:

- Exhaust systems
- Industrial silencers
- Engine parts
- Other high temperature applications

## Benefits of FORREST INFERNEX®

- Excellent over-bake stability
- Excellent corrosion resistance
- Very good weathering properties
- Smooth & textured finishes
- Higher transfer efficiency (Reclaim)

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FORREST Technical Coatings

# INFERNEX® PS-800 Technical Data Sheet

## PRODUCT DESCRIPTION

A decorative powder coating that withstands high temperatures for general use on ferrous and non-ferrous metal. This product is also sold as 1PC-654-2502.

**Benefits**

Coating has good UV resistance for outdoor use
Thin film extends coverage per pound
Excellent over-bake stability
Designed to be more compatible and to reduce cross contamination with other coatings

*We recommend performing tests in house to assure compatibility with your current coatings.

## APPLICATION

**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 that could potentially interfere with adhesion of the coating.

**Surface preparation:**

The overall performance of the coating system is largely dependent on the nature of the substrate and the type and quality of the surface preparation. Surfaces to receive coating may be prepared using liquid pretreatment designed for high temperature service. For optimal results, we recommend abrasive blast cleaning in accordance with SSPC SP-10/NACE #2, ISO SA 2.5, anchor profile 0.75 to 1.5 mils (19.1 to 38.1 microns). Before using phosphate pretreatments, contact your supplier for temperature limitations. Substrates also have structural physical temperature limits that must be observed.

**Powder Application Conditions**

| Cure Schedule | Temperature | Time |
|---|---|---|
| | 450 °F (232°C) | 10 minutes |

| Film Build | Minimum Thickness | Maximum Thickness |
|---|---|---|
| | 1.5 mils (38.1µm) | 2.5 mils (63.5µm) |

*Other curing schedules may be used upon technical approval.
*Cure schedule is based on substrate temperature.

**Equipment**

Electrostatic application to room temperature substrate is recommended. Suitable for Corona charging equipment, reduced voltages can improve coating film thickness uniformity. This product may be applied to warm substrate for increased film thickness.

## APPEARANCE

**Color:** Black
**Gloss:** Semi-Gloss
**Finish:** Smooth

If the significant surface is too small or unsuitable for the gloss to be measured with the gloss meter, the gloss should be compared visually with the reference sample.

## POWDER PROPERTIES

| Property | Result |
|---|---|
| Specific Gravity (S.G) | 1.77 +/- 0.05 |
| Theoretical Coverage at 1 mil (25.4 µm) | 109 ft.²/lb (22.3 m²/kg) |

**Storage**
Keep in a dry cool area. Maximum temperature of 77°F (25 °C) and maximum relative humidity 60%. If stored longer than 12 months a quality test is recommended.

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

## PERFORMANCE

The technical data provided below are typical for this product when applied as follows:

Substrate: Cold Rolled Steel

Film thickness: 2.0 mils (50.8 µm)

Typical values when tested.

| Property | Standard | Result |
|---|---|---|
| Gloss @ 60° | ASTM D523-14 | 25 - 35 |
| Adhesion | ASTM D3359 | 5B |
| Impact Resistance | ASTM D2794-90 | 40 in-lbs |
| Pencil Hardness | ASTM D3363 | 2H |
| Salt Spray | ASTM B117/D1654 | 300 Hours |

| | | |
|---|---|---|
| Accelerated Weathering | ASTM D4587-11<br>Automotive setting | ΔE= 0.45<br>300 Hours (QUV A) |

Coating Post Burn Performance Results

| Test | Temperature Tested | Time | Result | Method |
|---|---|---|---|---|
| Color after burn | 800 °F (427 °C) | 8 hours | Pass | Muffle Furnace |
| Adhesion after burn | 800 °F (427 °C) | 8 hours | 4B | Muffle Furnace |

## DISCLAIMER

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# INFERNEX® PS-600 | (IPC-654-2186)

PS-600 was engineered for salt fog resistance at a peak temperature of 600° F (315° C). For medium temperature projects, this powder has a nice smooth finish in a flat black when applied to properly prepared ferrous and non-ferrous substrates. It combines great aesthetics with corrosion resistance.







| INFERNEX® PS-600 | (1PC-654-2186) | | |
|---|---|---|---|
| Peak Temp | 600° F (315° C) | Continuous | 600° F (315° C) |
| Adhesion (24 Hrs) | 4B | Color Change (24 Hrs) | PASS |
| 500 Hrs Salt Spray ASTM B117/D1654 | PASS | Pencil Hardness ASTM 3363 | >H |
| Gloss @ 60° ASTM D523-14 | 5-10 | Impact Resistance ASTM D2794-90 | 40 in-lbs |
| Cure Cycle: 20 minutes @ 450° F (232° C) | | | |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for FORREST INFERNEX®

Specifically formulated for optimum performance under harsh conditions for:

- Exhaust systems
- Industrial silencers
- Engine parts
- Other high temperature applications

## Benefits of FORREST INFERNEX®

- Excellent over-bake stability
- Excellent corrosion resistance
- Very good weathering properties
- Smooth & textured finishes
- Higher transfer efficiency (Reclaim)

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FORREST Technical Coatings

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# INFERNEX® PS-600 Technical Data Sheet

## PRODUCT DESCRIPTION

A decorative powder coating that withstands high temperatures for general use on ferrous and non-ferrous metal. This product was designed as a one-coat finish for applications requiring an extremely smooth finish and high temperature resistance. This product is also sold as 1PC-654-2186.

**Benefits**

Excellent application properties and film quality

Excellent over-bake stability

Designed to be smoother than normal heat resistant coatings

## APPLICATION

**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 that could potentially interfere with adhesion of the coating.

**Surface preparation:**

The overall performance of the coating system is largely dependent on the nature of the substrate and the type and quality of the surface preparation. Surfaces to receive coating may be prepared using liquid pretreatment designed for high temperature service. For optimal results, we recommend abrasive blast cleaning in accordance with SSPC SP-10/NACE #2, ISO SA 2.5, anchor profile 0.75 to 1.5 mils (19.1 to 38.1 microns). Before using phosphate pretreatments, contact your supplier for temperature limitations. Substrates also have structural physical temperature limits that must be observed.

**Powder Application Conditions**

| Cure Schedule | Temperature | Time |
|---|---|---|
| | 450 °F (232 °C) | 20 minutes |

| Film Build | Minimum Thickness | Maximum Thickness |
|---|---|---|
| | 2.0 mils (50.8 µm) | 3.0 mils (76.2 µm) |

*Other curing schedules may be used upon technical approval.

**Equipment**

Electrostatic application to room temperature substrate is recommended. Suitable for Corona charging equipment, reduced voltages can improve coating film thickness uniformity. This product may be applied to warm substrate for increased film thickness.

FORREST Technical Coatings

# INFERNEX® PS-600 Technical Data Sheet

## APPEARANCE

**Color:** Black
**Gloss:** Flat
**Finish** Smooth

If the test surface is too small or unsuitable for measuring gloss using a glossmeter, the gloss should be compared visually with a reference sample.

## POWDER PROPERTIES

| Property | Result |
|---|---|
| Specific Gravity (S.G) | 1.85 +/- 0.05 |
| Theoretical Coverage at 1 mil (25.4 µm) | 104.3 ft²/ lb (21.4m²/ kg) |

**Storage**
Keep in a dry cool area. Maximum temperature of 77°F (25 °C) and maximum relative humidity 60%. If stored longer than 12 months a quality test is recommended.

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

## PERFORMANCE

The technical data provided below are typical for this product when applied as follows:

Substrate: Cold Rolled Steel (Q-panels)

Film thickness: 2.0 – 3.0 mils (50.8 – 76.2µm)

Typical values when tested.

| Property | Standard | Result |
|---|---|---|
| Gloss @ 60° | ASTM D523-14 | 5 - 10 |
| Adhesion | ASTM D3359 | 4B |
| Impact Resistance | ASTM D2794-90 | 40 in/lbs |
| Pencil Hardness | ASTM D3363 | >H |
| Salt Spray | ASTM B117/D1654 | 500 Hours |

Coating Post Burn Performance Results

| Test | Temperature Tested | Time | Result | Method |
|---|---|---|---|---|
| Color after burn | 600F (316°C) | 24hrs | Acceptable | Muffle Furnace |
| Adhesion after burn | 600F (316°C) | 24hrs | 4B | Muffle Furnace |

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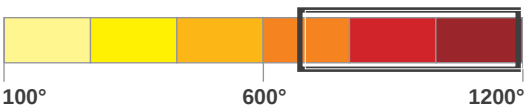


# INFERNEX®
# PROVEN HIGH HEAT PERFORMANCE.

Engineers and equipment manufacturers have trusted Forrest Technical Coatings for decades as a world leader in high performance liquid coatings. Our latest comprehensive collection, INFERNEX®, is specially formulated to solve your exterior exposure challenges by providing a cost-efficient application that delivers on appearance and corrosion resistance with low environmental impact.

Forrest Technical Coatings has been the respected global manufacturer and distributor of the high temperature Stove Bright® brand since 1978. We bring the same innovative chemical engineering and experience to the INFERNEX® product line.

**TO LEARN MORE ABOUT HOW INFERNEX® LIQUID COATINGS CAN SOLVE YOUR HIGH HEAT CHALLENGES, CONTACT US TODAY.**




WITHSTANDS TEMPERATURES UP TO 1200°F (648°C)

FORREST Technical Coatings

FORRESTPAINT.COM/INFERNEX

# INFERNEX® LIQUID COATINGS

## APPLICATIONS

Specifically formulated for optimum performance in harsh environments such as exhaust systems, industrial silencers, engine parts and other high temperature applications.

## PERFORMANCE

INFERNEX® liquid coatings pass a full battery of performance tests to establish superior high-heat standards for ferrous and non-ferrous substrates. These products deliver reliable corrosion resistance to combat the harshest weathering conditions. Their physical properties include rapid curing, excellent durability, and excellent adhesion. Count on INFERNEX® liquid coatings to meet temperature resistant needs ranging from 600° F to 1200° F (315° C – 648° C).

For optimal performance characteristics, liquid coatings must be applied over properly-prepared ferrous and non-ferrous substrates.

## INFERNEX® BENEFITS

- Rapid cure
- Excellent over-bake stability
- Excellent corrosion resistance
- Direct to metal applications

# THE INFERNEX® LINE

### INFERNEX® L-1200 | (62H290)

Engineered for high temperature resistance, INFERNEX® L-1200 has proven itself a reliable coating for more than 30 years due to its unique blend of pigments in a silicone polymer resin. Designed for rapid curing and good film integrity, this product also provides good corrosion protection to various substrates.

### INFERNEX® L-1100 | (54H204)

INFERNEX® L-1100 was originally engineered for barbeque protection with additional animal and vegetable fats resistance. Its unique epoxy formula performs at a peak temperature of 1100° F (593° C). It's become a top seller in the INFERNEX® line-up with a durable black satin finish with excellent mar and corrosion resistance.

### INFERNEX® LZ-1100 | (251H SERIES) *251H201 CHARCOAL & 251H219 BLACK*

INFERNEX® LZ-1100 is a zinc-loaded formulation which means no primer necessary! This coating has excellent color and gloss retention. For superior corrosion resistance on exterior surfaces especially at temperatures up to 1100° F (593° C).

### INFERNEX® L-800 | (62H241)

This INFERNEX® liquid was formulated for rapid curing and corrosion resistance with very good exterior durability. It has a unique balance of excellent pre- and post-burn adhesion and color retention up to 800° F (427° C). Its flat black finish applies smoothly to ferrous and non-ferrous substrates.

### INFERNEX® LB-1100 | (62H241)

INFERNEX® LB-1100 High Temp Baking Enamel is qualified for use on exhaust system components by an international agricultural equipment manufacturer. INFERNEX® LB-1100 offers breakthrough performance in longterm durability and corrosion resistance for machine exhaust systems in exterior working environments. Qualified for use on cold-rolled and hot-rolled, aluminized, and stainless steel substrates with pre-thermal and post-thermal shock standards that meet or exceed industry standards. LP-1100 Primer may also be added for added protection.

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# INFERNEX® L-1200 | (62H290)

Originally engineered for high temperature resistance, INFERNEX® L-1200 has proven itself a reliable coating for more than 30 years due to its unique blend of pigments in a silicone polymer resin. Designed for rapid curing and good film integrity, this product also provides good corrosion protection to various substrates.







| INFERNEX® L-1200 | (62H290) | | |
|---|---|---|---|
| Peak Temp | 1200° F (648° C) | Continuous | 1100° F (593° C) |
| Adhesion (1Hr) ASTM D3359 | 4B | Color Change (8 Hrs) | PASS |
| 240 Hrs Salt Spray ASTM B117/D1654 | PASS | Pencil Hardness ASTM 3363 | H |
| Accelerated Weathering (QUV A) ASTM D4587-11 | 100% Gloss Retention 300 Hrs | Gloss @ 60° ASTM D523-14 | 2-5 |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for FORREST INFERNEX®

Specifically formulated for optimum performance under harsh conditions for:

- Exhaust systems
- Industrial silencers
- Engine parts
- Other high temperature applications

## Benefits of FORREST INFERNEX®

- Rapid cure
- Excellent over-bake stability
- Excellent corrosion resistance
- Direct to metal applications

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INFERNEX® L-1200

# 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 is also sold as 62H290.

**Color:** Black
**Sheen:** Satin

**Benefits**
Heat Resistant
Exterior Durable

## PRODUCT AND PERFORMANCE DATA

**Product Data**

| Property | Result |
|---|---|
| Volume solids (%) | 13.04 |
| Weight solids (%) | 22.98 |
| VOC | 749.62 g/l<br>6.26 lb/gal |
| Recommended dry film thickness | 0.8 to 1.2 mils<br>20.3 to 30.5 µm |
| Theoretical Coverage @ 1.0 mil (25.4 µm) | 213.9 ft²/ gal<br>5.3 m²/L |
| Viscosity (#4 Ford) | 36 – 40 seconds |
| Dry to handle | 30 minutes |

**Performance Data**

| Test Method | Standard | Result |
|---|---|---|
| Gloss @ 60° | ASTM D523-14 | 2 – 5 |
| Pencil Hardness | ASTM D3363 | H |
| Salt Fog | ASTM B117/D1654 | 240 hours |
| Accelerated Weathering | ASTM D4587-11 | 100 % gloss retention<br>300 hours QUV A |

**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 |

## 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 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.

**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.

## PACKAGING AND STORAGE

**Packaging**
1 – Gallon
5 – Gallon
Drums

**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) = 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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# INFERNEX® L-1100 | (54H204)

INFERNEX® L-1100 was originally engineered for barbeque protection with additional animal and vegetable fats resistance. Its unique epoxy formula performs at a peak temperature of 1100° F (593° C). It's become a top seller in the INFERNEX® line-up with a durable black satin finish with excellent mar and corrosion resistance.







| INFERNEX® L-1100 \| (54H204) | | | |
|---|---|---|---|
| Peak Temp | 1100° F (593° C) | Continuous | 1100° F (593° C) |
| Adhesion (8 Hr) ASTM D3359 | 5B | Color Change (8 Hrs) | PASS |
| 240 Hrs Salt Spray ASTM B117/D1654 | PASS | Pencil Hardness ASTM 3363 | H |
| Gloss @ 60° ASTM D523-14 | 5-10 | | |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for FORREST INFERNEX®

Specifically formulated for optimum performance under harsh conditions for:

- Exhaust systems
- Industrial silencers
- Engine parts
- Other high temperature applications

## Benefits of FORREST INFERNEX®

- Rapid cure
- Excellent over-bake stability
- Excellent corrosion resistance
- Direct to metal applications

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FORREST Technical Coatings

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# 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 is also sold as 54H204.

**Color:** Black
**Sheen:** Flat

**Benefits**
Rapid Cure
High heat resistance
Resistant to animal and vegetable fats

## PHYSICAL PROPERTIES

**Product Data**

| Property | Result |
|---|---|
| Volume solids (%) | 18.3 |
| Weight solids (%) | 26.6 |
| VOC | 716 g/l<br>5.97 lb/gal |
| Recommended dry film thickness | 0.8 to 1.2 mils<br>20.3 to 30.5 µm |
| Theoretical Coverage @ 1.0 mil (25.4 µm) | 300 ft²/ gal<br>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<br>300 hours QUV A |

## APPEARANCE

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.

**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.

## PACKAGING AND STORAGE

**Packaging**
1 – Gallon
5 – Gallon
Drums

**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) = 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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# INFERNEX® LZ-1100 | (251H SERIES)

INFERNEX® LZ-1100 is a zinc-loaded formulation which means no primer necessary! This coating has excellent color and gloss retention. For superior corrosion resistance on exterior surfaces especially at temperatures up to 1100° F (593° C).







| INFERNEX® LZ-1100 \| (251H SERIES) *(251H201 Charcoal & 251H219 Black)* | | | |
|---|---|---|---|
| Peak Temp | 1100° F (593° C) | Continuous | 1100° F (593° C) |
| Adhesion (8 Hrs) | 5B | Color Change (8 Hrs) | PASS |
| 240 Hrs Salt Spray ASTM B117/D1654 | PASS | Pencil Hardness ASTM 3363 | H |
| Gloss @ 60° ASTM D523-14 | 2-7 | | |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for FORREST INFERNEX®

Specifically formulated for optimum performance under harsh conditions for:

- Exhaust systems
- Industrial silencers
- Engine parts
- Other high temperature applications

## Benefits of FORREST INFERNEX®

- Rapid cure
- Excellent over-bake stability
- Excellent corrosion resistance
- Direct to metal applications

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FORREST Technical Coatings

FORREST Technical Coatings

# INFERNEX® LZ-1100 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 251H219 and 251H201.

**Color:** Black and Charcoal
**Sheen:** Flat

**Benefits**
Heat Resistant
Superior Coverage
Exterior Corrosion Resistance
Excellent durability

## PRODUCT AND PERFORMANCE DATA

**Product Data**

| Property | Result |
|---|---|
| Volume solids (%) | 29 - 33 |
| Weight solids (%) | 50 - 55 |
| VOC | 420 g/l<br>3.5 lb/gal |
| Recommended dry film thickness | 2 - 3 mils<br>50.8 – 76.2 µm |
| Theoretical Coverage @ 1.0 mil (25.4 µm) | 508.4 ft²/ gal<br>12.5 m²/L |
| Viscosity (#3 Zahn Cup) | 24 - 26 seconds |
| Dry to handle | 30 minutes |

**Performance Data**

| Test Method | Standard | Result |
|---|---|---|
| Gloss @ 60° | ASTM D523-14 | 2 – 5 |
| Pencil Hardness | ASTM D3363 | H |
| Salt Fog | ASTM B117/D1654 | 240 hours |
| Accelerated Weathering | ASTM D4587-11 | 100 % gloss retention<br>300 hours QUV A |

**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 |

## 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 – 0.75 mils

## 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.
Apply coating within 8 hours of sandblasting or before surface rust begins to occur

**Application Parameters**

| | |
|---|---|
| Relative Humidity | 50 % ±10 |
| Minimum Temperature | 50°F |
| Maximum Temperature | 80°F |

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

**Force Cure Schedule**

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

**Application methods**
The product can be applied by

**Spray**
Airless or air assist spray: 0.009” - 0.013” orifice size

HVLP/Conventional spray: 1.0 mm – 1.8 mm

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

## STORAGE

**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) = 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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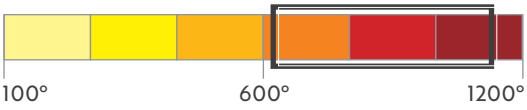
INTRODUCING

# INFERNEX® LB-1100 HIGH TEMP BAKING ENAMEL

Introducing INFERNEX® LB-1100 High Temp Baking Enamel qualified for use on exhaust system components by an international agricultural equipment manufacturer. INFERNEX® LB-1100 offers breakthrough performance in long-term durability and corrosion resistance for machine exhaust systems in exterior working environments. Qualified for use on cold-rolled and hot-rolled, aluminized, and stainless steel substrates with pre-thermal and post-thermal shock standards that meet or exceed industry standards.

Forrest Technical Coatings has been the respected global manufacturer and distributor of the high temperature Stove Bright® brand since 1978. We bring the same innovative chemical engineering and experience to the INFERNEX® product line.

**TO LEARN MORE ABOUT HOW INFERNEX® LIQUID COATINGS CAN SOLVE YOUR HIGH HEAT CHALLENGES, CONTACT US TODAY.**




WITHSTANDS TEMPERATURES UP TO 1100°F (593°C)







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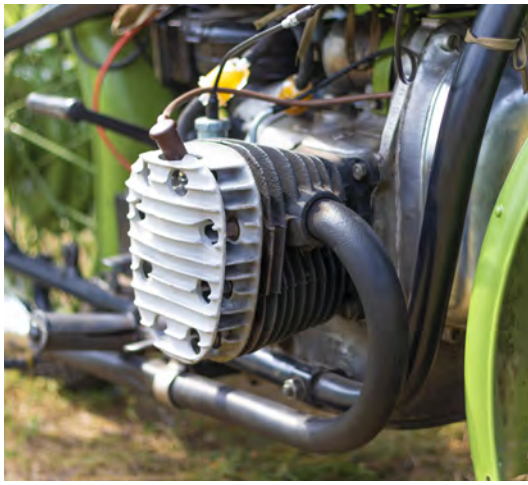
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# INFERNEX® LB-1100 HIGH TEMP BAKING ENAMEL

INFERNEX® LB-1100 is a high-solids silicone-modified alkyd baking enamel with extreme corrosion resistance, flexibility, and superior adhesion in high heat applications. Maintains a low-gloss black appearance, chemical resistance and mechanical durability up to an operating temperature of 1100°F (593°C). Use direct-to-metal or with INFERNEX® LP-1100 as part of a two-part corrosion protection system. resistance.







| INFERNEX® LB-1100 \| LOW-GLOSS BLACK | | | |
|---|---|---|---|
| Peak Temp | 1100° F (593° C) | Continuous | 1100° F (593° C) |
| Adhesion (8 Hrs)<br>ASTM D3359 | 4B+ | Color Change (8 Hrs) | PASS |
| 24 Hr Post-Thermal Salt Spray<br>ASTM B117/D1654 | PASS | Pencil Hardness<br>ASTM D3363 | H+ |
| Gloss @ 60°<br>ASTM D523-14 | 1-5 | Solvent Resistance<br>ASTM D4752 | 100+ MEK rub |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for INFERNEX® LB-1100

- Exhaust systems and engine parts of agricultural, construction, and recreation equipment
- Industrial silencers
- Other high temperature applications
- Application on hot-rolled, cold-rolled, aluminized, and stainless steel

## Benefits of INFERNEX® LB-1100

- Specified with an international agricultural equipment manufacturer
- Excellent pre-thermal and post-thermal properties
- Excellent corrosion resistance
- Aerosol touch-up available

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FORREST Technical Coatings

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FORREST Technical Coatings

# 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
- Meets JDM F14 Class 2
- Aerosol touch-up available; p/n 1A51H290

## PRODUCT AND PERFORMANCE DATA

**Product Data**

| Property | Result |
|---|---|
| Volume solids (%) | 48 ± 2 |
| Weight solids (%) | 64 ± 2 |
| VOC | 462 g/l ± 2 |
| Theoretical Coverage at 1.0 mil (25.4 µm) | 770 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 over **INFERNEX® LP-1100**

## 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 LP-1100 (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.

## APPLICATION

**Application Parameters**

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

**Force Cure Schedule**

| | |
|---|---|
| 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**

## 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.

# INFERNEX® LP-1100 Primer Technical Data Sheet

## PRODUCT DESCRIPTION

A Silicone heat resistant primer designed for good working properties over ferrous and non-ferrous metal surfaces to improve adhesion and rust resistance. Intended to be top coated by one of FORREST's high temperature finish coatings, including Infernex® LB-1100 (55B290) for maximum performance.

**Model number:** LP-1100
**Part Number:** 55P201

**Color:** Charcoal
**Sheen:** Flat

**Benefits**

- Excellent pre-thermal and post-thermal properties
- Excellent corrosion resistance

## PRODUCT AND PERFORMANCE DATA

**Product Data**

| Property | Result |
|---|---|
| Volume solids (%) | 32 ± 2 |
| Weight solids (%) | 50 ± 2 |
| VOC | 582 g/l ± 2 |
| Theoretical Coverage at 1.0 mil (25.4 µm) | 513 ft²/ gal |
| Recommended dry film thickness | 1.5 – 2 mils |
| Recommended wet film thickness | 4.5 – 6.25 mils |
| Dry to handle | 60 minutes |

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

| Test Method | Standard | Result |
|---|---|---|
| Gloss @ 60° | ASTM D523-14 | 0 – 3 |
| Adhesion | ASTM D3359 | 4B |
| Pencil Hardness | ASTM D3363 | F + |
| Salt Fog | ASTM B117/D1654 | Pass 96 hours |
| Solvent Resistance | ASTM D4752 | 100+ MEK rub |

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) |

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

***** We recommend allowing product to air dry for 24 hours before topcoating, unless force cured

**Force Cure Schedule**

| | |
|---|---|
| Temperature | 400°F (204°C) |
| Time | 30 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

## 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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# INFERNEX® L-800 | (62H241)

This INFERNEX® liquid was formulated for rapid curing and corrosion resistance with very good exterior durability. It has a unique balance of excellent pre- and post-burn adhesion and color retention up to 800° F (426° C). Its flat black finish applies smoothly to ferrous and non-ferrous substrates.







| INFERNEX® L-800 \| (62H241) | | | |
|---|---|---|---|
| Peak Temp | 800° F (426° C) | Continuous | 800° F (426° C0 |
| Adhesion (1 Hr) | 5B | Color Change (8 Hrs) | PASS |
| 125 Hr Salt Spray ASTM B117/D1654 | PASS | Pencil Hardness ASTM 3363 | H |
| Accelerated Weathering (QUV A) ASTM D4587-11 | 60% Gloss Retention 300 Hrs | Gloss @ 60° | 4-6 |

It is always recommended the user conduct tests to determine the suitability of the product for the intended use on appropriate substrates.

## Use cases for FORREST INFERNEX®

Specifically formulated for optimum performance under harsh conditions for:

- Exhaust systems
- Industrial silencers
- Engine parts
- Other high temperature applications

## Benefits of FORREST INFERNEX®

- Rapid cure
- Excellent over-bake stability
- Excellent corrosion resistance
- Direct to metal applications

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FORREST Technical Coatings

FORREST Technical Coatings

# INFERNEX® L-800 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 is also sold as 62H241.

**Color:** Black
**Sheen:** Flat

**Benefits**
Heat Resistant
Rapid Cure
Exterior Durable

## PRODUCT AND PERFORMANCE DATA

**Product Data**

| Property | Result |
|---|---|
| Volume solids (%) | 20.64 |
| Weight solids (%) | 33.39 |
| VOC | 680.84 g/l<br>5.68 lb/gal |
| Recommended dry film thickness | 0.8 to 1.2 mils<br>20.3 to 30.5 µm |
| Theoretical Coverage @ 1.0 mil (25.4 µm) | 338.5 ft²/ gal<br>8.3 m²/L |
| Viscosity (#4 Ford) | 36 – 40 seconds |
| Dry to handle | 30 minutes |

**Performance Data**

| Test Method | Standard | Result |
|---|---|---|
| Gloss @ 60° | ASTM D523-14 | 4 – 6 |
| Pencil Hardness | ASTM D3363 | H |
| Salt Fog | ASTM B117/D1654 | 240 hours |
| Accelerated Weathering | ASTM D4587-11 | 60 % gloss retention<br>300 hours QUV A |

**Coating Post Burn Performance Results**

| Test | Temperature Tested | Time | Result | Method |
|---|---|---|---|---|
| Color after burn | 800°F (426°C) | 8 Hours | Pass | Muffle Furnace |
| Adhesion after burn | 800°F (426°C) | 1 Hour | 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 % |
| 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.

**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.

## PACKAGING AND STORAGE

**Packaging**
1 – Gallon
5 – Gallon
Drums

**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) = 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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