

# Coatings

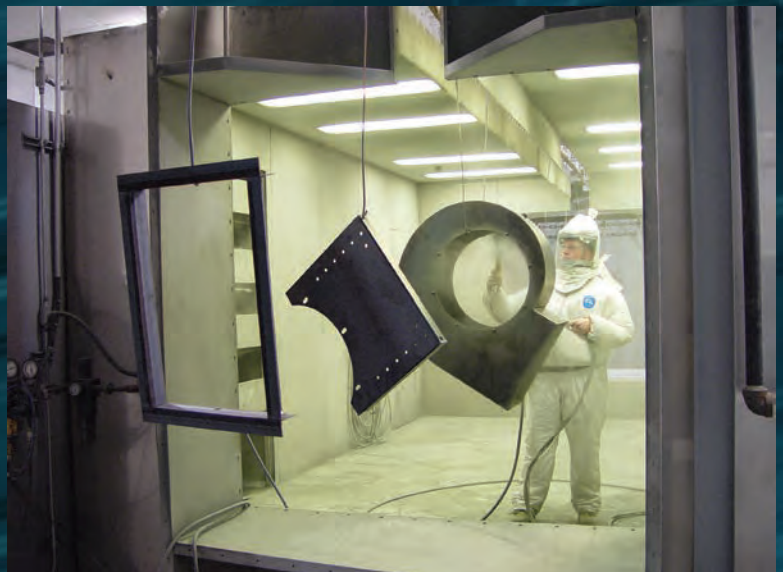
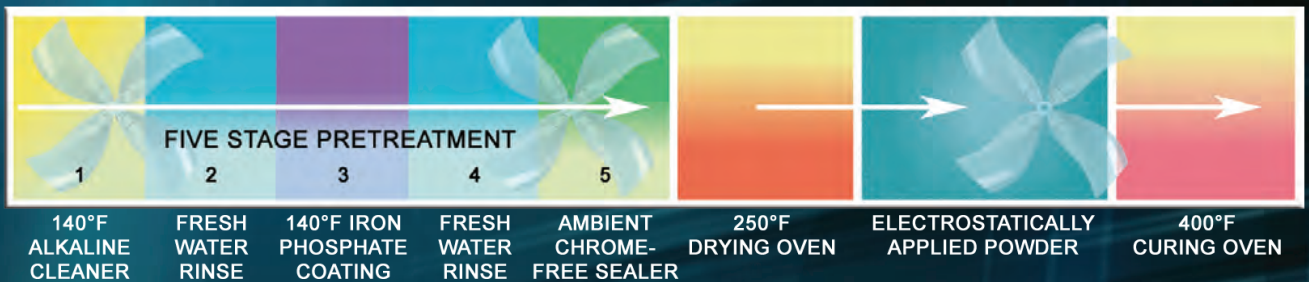
## What makes LORENIZED a superior coating?

### Durable protection, lasting beauty

All steel fan and blower components receive COOK's LORENIZED coating as the factory standard. When this coating goes on, it stays on. It's the industry's most durable standard coating. It comes out sleek and smooth and it stays that way. COOK's LORENIZED coating withstands the elements and provides durable protection and lasting beauty.

### COOK's environmentally friendly powder coating process

The entire procedure occurs within a self-contained, automated system. Water used in the pretreatment recirculates and is neutralized before its release from the system. Excess powder is captured and recycled. No solvents are utilized so there are no polluting fumes or paint vapors to escape. There is virtually nothing in the entire process to adversely effect our environment.



Steel components go through a five stage pretreatment process before the powder is applied. They are washed and treated until all surfaces are perfectly clean, chemically prepared and electrostatically charged - ready to bond with the powder. This insures excellent coating adhesion, uniformity and consistent edge coverage.

Then, a worker or an automated system of sprayers applies the powder that chemically bonds to the prepared surface. Components are then cured in a 400°F oven. This process creates adhesion, durability and a smoothness of coating not possible with conventional liquid paints.

# Standard Coating

## LORENIZED™

is an electrostatically applied, baked polyester powder coating. This coating technology offers good chemical resistance, excellent mechanical performance and excellent protection from outdoor elements.



Gray (standard)

### Property

Salt Spray  
 Humidity Resistance  
 Impact Resistance  
 Mandrel Flexibility  
 Pencil Hardness  
 Crosshatch Adhesion  
 Max Service Temperature  
 Coating Thickness  
 Standard Color

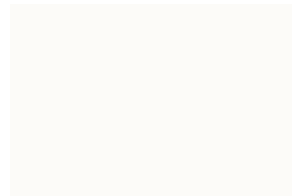
### Test Method

ASTM B117  
 ASTM D2247  
 ASTM D2794  
 ASTM D522  
 ASTM D3363  
 ASTM D3359-B  
 N/A  
 N/A  
 N/A

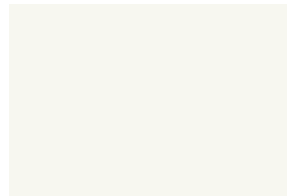
### Value

1000+ hours  
 1000+ hours  
 100 in. lbs.  
 1/8" pass  
 2H  
 100%  
 230 deg F  
 1.5-2.5 mil  
 Gray

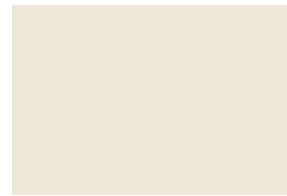
## Optional LORENIZED Colors



Blizzard White



Linen White



Oyster

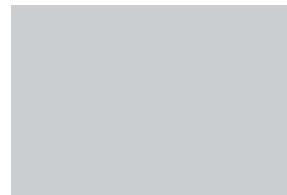
Oatmeal



Wheat



Burlap



Carthage Stone



Storm Gray



Safety Yellow



Cook Red



Brick Red



Midnight Blue



Irish Green



Pine Green



Architectural Bronze



Onyx Black

Colors represent appearance as close as possible. Appearance may vary depending on application variables.



## Other Coatings

### Coating Selection Guide

In some cases, an optional coating may be required to insure adequate chemical resistance. Where more protection is needed, the first choice would be COOK Epoxy Powder. This coating can be used as an equal to Eisen-Heiss<sup>1</sup>, conventional spray applied Epoxy and Baked Epoxy.

For additional protection COOK Phenolic Epoxy Powder is available as an equal to air dry Heresite<sup>®2</sup>.

For applications where easy cleanup is important, use COOK Easy Clean Powder and for high temperature applications use COOK High Temp.

For a more detailed analysis, a chemical resistance guide is available in COOK's Compute-A-Fan software. This guide displays COOK's standard and optional coatings and their resistance to over 275 chemicals.

	LORENIZED	Epoxy Powder Coating	Phenolic Epoxy Powder Coating	Easy Clean Powder Coating
Weather Resistance	Excellent	Good/Excellent*	Fair/Excellent*	Excellent
Chemical Resistance	Good	Very Good	Excellent	Good

\* with Ultraviolet (UV) Topcoat

<sup>1</sup>Eisen-Heiss, also known as Sanitile EH-210 System (which is owned by the Carboline Company) is no longer manufactured.

<sup>2</sup>Heresite<sup>®</sup> is a registered trademark of Heresite Protective Coatings.

Loren Cook Company assumes no responsibility for the life or adequacy of the coating to provide protection for a specified time. The company does however, accept responsibility for workmanship and application of the coating in accordance with the manufacturers recommendations.

### COOK Epoxy Powder Coating

is an electrostatically applied, baked epoxy powder coating. This coating technology offers excellent mechanical performance and very good resistance to a wide range of acids, alkalis and solvents. For outdoor applications, a UV topcoat is required to prevent coating deterioration.



Dark Gray

#### Property

Salt Spray  
Humidity Resistance  
Impact Resistance  
Mandrel Flexibility  
Pencil Hardness  
Crosshatch Adhesion  
Max Service Temperature  
Coating Thickness  
Color

#### Test Method

ASTM B117  
ASTM D2247  
ASTM D2794  
ASTM D522  
ASTM D3363  
ASTM D3359-B  
N/A  
N/A  
N/A

#### Value

1000+ hours  
1000+ hours  
160 in. lbs.  
1/8" pass  
2H  
100%  
230 deg F  
2.5-3.5 mil  
Dark Gray

### COOK Phenolic Epoxy Powder Coating

is an electrostatically applied, high performance, baked phenolic epoxy powder coating. This coating technology offers excellent chemical resistance, to withstand severe environments containing high concentrations of acids and solvents. For outdoor applications, a UV topcoat is required to prevent coating deterioration.

#### Property

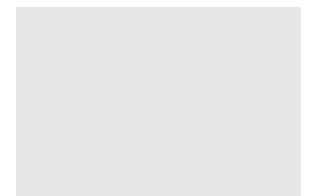
Salt Spray  
Humidity Resistance  
Impact Resistance  
Mandrel Flexibility  
Pencil Hardness  
Crosshatch Adhesion  
Max Service Temperature  
Coating Thickness  
Standard Color  
Available Color

#### Test Method

ASTM B117  
ASTM D2247  
ASTM D2794  
ASTM D522  
ASTM D3363  
ASTM D3359-B  
N/A  
N/A  
N/A  
N/A

#### Value

1000+ hours  
1000+ hours  
160 in. lbs.  
1/8" pass  
3H  
100%  
200 deg F  
1.5-4.0 mil  
Brown  
Light Gray



Light Gray



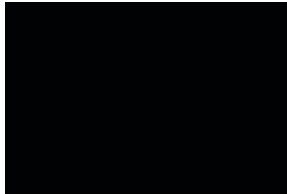
Brown

## Other Coatings

Continued

### COOK Easy Clean Powder Coating

is an electrostatically applied, baked modified epoxy silicone powder coating. This coating technology provides an excellent "non-stick" coating for elevated temperature and kitchen exhaust applications.



Black

Property	Test Method	Value
Salt Spray	ASTM B117	1000+ hours
Humidity Resistance	ASTM D2247	1000+ hours
Impact Resistance	ASTM D2794	120 in. lbs.
Mandrel Flexibility	ASTM D522	1/8" pass
Pencil Hardness	ASTM D3363	3H
Crosshatch Adhesion	ASTM D3359-B	100%
Max Service Temperature	N/A	500 deg F
Coating Thickness	N/A	1.0-2.0 mil
Color	N/A	Black

### COOK High Temp Coating

is a solvent based, heat resistant liquid coating which exhibits good corrosion resistance and color stability. This coating withstands service temperatures up to 1,000°F.



Black

Property	Test Method	Value
Salt Spray	ASTM B117	240+ hours
Mandrel Flexibility	ASTM D522	1/8" pass
Impact Resistance	ASTM D2794	120 in. lbs.
Pencil Hardness	ASTM D3363	2H-3H
Crosshatch Adhesion	ASTM D3359-B	100%
Max Service Temperature	N/A	1,000 deg F
Coating Thickness	N/A	0.8-1.5 mil
Color	N/A	Flat Black

### Air Dry Phenolic (Heresite® VR-504)

is a high performance liquid coating offering excellent chemical resistance to withstand severe corrosive environments. It is recommended as a heavy duty coating for exposures to chemical splash, spillage, and fumes. All steel components are subjected to a commercial sand blast in accordance with coating manufacturers specifications. Aluminum components are cleaned and pre-treated in COOK's environmentally friendly wash system. In addition, a phenolic wash primer is applied to all components to enhance coating performance. For outdoor applications, Heresite UC-5500 UV topcoat is required.

Property	Test Method	Value
Salt Spray	ASTM B117	1000+ hours
Impact Resistance	ASTM D2794	≥25 in. lbs.
Pencil Hardness	ASTM D3363	2H
Max Service Temperature	N/A	180 deg F
Coating Thickness	N/A	2.0-4.0 mil
Color	N/A	Brown



Brown



## **LOREN COOK COMPANY**

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