

# COLOR GUIDE

Air Distribution & Equipment Products







## INTRODUCTION

Krueger has a broad range of liquid and powder paint solutions available, as well as custom color matching to meet the needs of most air distribution applications. Also offered are a variety of aluminum anodized colors for customers who may require the aesthetics and surface characteristics which these finishes offer.

## STANDARD WHITE: E-COAT ACRYLIC ENAMEL

### Description

Krueger's British White uses Acrylic Enamel paint and an anodic electrocoating process that produces a durable, thorough, controllable, corrosion-resistant finish on all products.

### Method of Application

After assembly, products are washed, rinsed, pretreated with zirconium phosphate, and then rinsed again. They are then suspended from an anodic hook and dipped into a high performance electrocoating tank. Following electrocoating, products are dried and baked in a forced air oven at a peak temperature of 310°F until cured.

## OPTIONAL FINISHES: ALKYD ENAMEL

### Description

Krueger offers a variety of optional paint finishes that feature a durable alkyd enamel. This finish is applied using a spray technique and then baked on, similar to the coating found on household appliances. The resulting mar-resistant surface is quite durable and can be color-matched to a paint sample for a small fee. It achieves a pencil hardness ranging from HB to 2H and demonstrates salt spray resistance for up to 175 hours.

\* The #10 aluminum coating is specially designed with suspended aluminum particles.

## HARD COAT: URETHANE ENAMEL

### Description

Krueger's Urethane Enamel finish is a robust, baked-on, high-solids enamel coating designed to deliver exceptional surface durability in demanding environments. This resilient finish effectively resists scratching, chipping, and abrasion, ensuring long-lasting protection. It is available in precise custom color matching for a seamless look.

Ideal for high-traffic areas such as gymnasiums, kitchens, industrial shops, and hospitals, our Urethane Enamel coating on phosphated steel boasts a salt spray test for up to 500 hours (based on ASTM B117) and a hardness rating ranging from H to 2H.

## CRITICAL ENVIRONMENT POWDER COAT: EPOXY POLYESTER

### Description

Krueger's powder paint coatings are aesthetically pleasing, provide excellent physical and chemical resistance properties, and produce a durable uniform finish. They are also antiseptically manufactured to meet the increasingly stringent requirements of the commercial, industrial, healthcare and laboratory markets, and are used exclusively on Krueger's world-class critical environment diffusers.

### Method of Application

After assembly, products go through a multi-staged wash and pretreat system, are oven dried, then coated with 2.0 to 3.0 mils of powder paint. The products then move through an oven and are baked at a temperature of 425°F until fully cured.

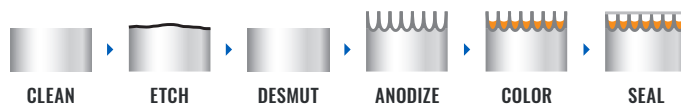
### Antimicrobial Powder Coat

Krueger's antimicrobial powder coat paints help reduce the undesirable effects of odors and stains caused by bacteria, mold, mildew, and fungi on the coating. They also resist fingerprints and smudges, which help them stay cleaner between scheduled routine maintenance. When cleaning is necessary, they can be wiped down with a mild soap and water solution. Antimicrobials within the paint decrease microbial growth by disrupting the microorganisms when they make contact with the surface. A short period of time after contact, the bacteria levels begin to reduce to unmeasurable levels\*. Even better, these coatings are environmentally friendly and are considered to be RoHS and REACH-compliant solutions. **DISCLAIMER: This product is formulated with antimicrobials to help suppress the growth of odor and stain-causing microorganisms on the coating. It is not intended as a substitute for good hygiene or to prevent food borne or infectious illnesses.**

## ANODIZE

### Description

Clear and dyed anodizing is a standard finishing option for all extruded aluminum products. Our anodized finishes are produced using a sophisticated electrochemical process, where the product is immersed in an acid electrolyte bath while an electric current is applied. This process induces a controlled chemical reaction—essentially a highly regulated form of oxidation—that results in a surface that is not only aesthetically pleasing but also significantly more durable and corrosion-resistant. Unlike traditional paint, this aluminum oxide is integrated directly into the product, ensuring that it will not chip or peel over time.



# COLOR GUIDE



FILM PROPERTIES					
PROPERTY	TEST METHOD	STANDARD E-COAT VALUE	ALKYD ENAMEL	STANDARD POWDER COAT VALUE	ANTIMICROBIAL POWDER COAT VALUE
FILM THICKNESS	N/A	1.0 - 1.2 MILS	1.0-1.35	2.3 - 3.7 MILS	2.3 - 3.7 MILS
GLOSS: 60-DEGREES	ASTM D523-89	60 - 70%	85+	60 - 70%	55 - 65%
PENCIL HARDNESS	ASTM D3363-92A	HB - H	HB	H - 2H	H - 2H
CROSSHATCH ADHESION	ASTM D3359-83	CROSSHATCH 3B	-	4A - 5A	4A - 5A
IMPACT	ASTM D2794-93	DIRECT: >100 IN/LB REVERSE: >80 IN/LB	DIRECT: 30 IN/LB INDIRECT: 30 IN/LB	N/A	N/A
SALT SPRAY	ASTM B117-9048	100 HOURS	-	1000 HOURS	1000 HOURS
HUMIDITY	ASTM D2247-92	> 500 HOURS	-	1000 HOURS	1000 HOURS
WATER SOAK	ASTM D870-92	250 HOURS	-	N/A	N/A
CONICAL MANDREL	ASTM D522	N/A	N/A	1/8" CONICAL BEND NO CRACKING SHOWS	1/8" CONICAL BEND NO CRACKING SHOWS

## STANDARD PAINT SELECTION <sup>1</sup>

MILL (01)	
BRITISH WHITE (44)	CE ECA

## OPTIONAL PAINT SELECTION <sup>1</sup>

BRITISH WHITE ANTIMICROBIAL (4A)	CE
OFF WHITE (49)	AE
ALUMICAN (10)	AE
ALUMICAN ANTIMICROBIAL (1A)	CE
CANYON BROWN (32)	AE
BLACK (35)	AE

## ANODIZED SELECTION <sup>2</sup>

CLEAR ANODIZE (81)
LIGHT BRONZE ANODIZE (84)
MEDIUM BRONZE ANODIZE (85)
DARK BRONZE ANODIZE (86)
BLACK ANODIZE (87)

## CUSTOM SELECTION <sup>3</sup>

CUSTOM COLOR MATCH (07)	AE
CUSTOM COLOR MATCH (09)	UE

## NOTES

**All finish types shown are not available with all products.** Please see Krueger's Product Catalog, website, or selection software for available finishes per product.

Standard finish options are Mill (untreated production material) or British White. **For other paint selections, paint matching, or anodizing, additional fees may apply.**

**All finishes and colors shown serve as a guide only.** Please contact your local Krueger Representative for an physical sample.

<sup>1</sup> Powder Coat British White and Antimicrobial White are standard with certain critical environment products only. See Krueger for details.

<sup>2</sup> Anodized options are only available with select aluminum products. See Krueger for details.

<sup>3</sup> Custom selections require a custom color swatch or RAL classic number.

**ADVISORY:** White can be used as a primer coat for field painting, but requires preparation. See Krueger website for field painting instructions.

AE = Alkyd Enamel   CE = Critical Environment   ECA = E-Coat Acrylic   UE = Urethane Enamel

## FAN COIL UNIT STANDARD POWDER PAINT

### Description

Krueger offers three powder coat paint finishes for fan coil units. The standard color is Pearl White, with British White is an alternative. Brite White is also available, but it must be special quoted.

### Method of Application

Before final assembly, all coated panel products go through a multi-staged wash and pretreat system, which are then oven dried and coated with 2.0 to 3.5 mils of powder paint. The products then move through an oven and are baked at temperatures of 355°F to 400°F until fully cured.

### Film Properties

Below are the listed film properties and color swatches, but the best way to see our finishes would be to request a sample, which can be requested by your local [Krueger Representative](#).

### Touch-up and Field Coatings

Exposed cabinet units will be furnished with a powder coat paint finish. In the occurrence of incidental scratches, these small scratches in the finish may be repaired with touch-up spray paint available from the factories.

Repainting over factory powder coat finish:

- The surface should be lightly sanded with #280 grit sandpaper or #000 steel wool. The surface may also be wiped down with a liquid surface etching product. (Note: the more attention during this procedure will result in a more effective coating outcome.)
- After preparing the surfaces, the factory finish should offer excellent adhesion for the air-dried topcoats. All standard colors can be painted over. Factory touch-up spray paint may require several light coats to isolate the factory finish.

PROPERTY	TEST METHOD	PEARL WHITE * POLYESTER POWDER	BRITISH WHITE * POLYESTER POWDER	BRITE WHITE * POLYESTER POWDER
FILM THICKNESS	N/A	2.5- 3.5 mils	2.0- 3.5 mils	2.0- 3.5 mils
GLOSS: 60°	ASTM D523	5 - 12	4 - 10	4 - 10
PENCIL HARDNESS	ASTM D3363	2H	2H	2H
CROSSHATCH ADHESION	ASTM D3359	5B	5B	5B
IMPACT	ASTM D2794	160 in/lb	160 in/lb	160 in/lb
SALT SPRAY	ASTM B117	1000	1000	1000
CONICAL MANDREL	ASTM D522	1/4 in	1/4 in	1/4 in
STANDARD (S) OPTIONAL (O) SPECIAL QUOTE (SQ)	N/A	S	O	SQ
PAINT SAMPLE PART #	N/A	00-13170-01	00-13170-03	00-13170-02
TOUCH-UP SPRAY CAN PART #	N/A	PR-21-0001	PR-21-0041	PR-21-0008
COLOR SWATCH	N/A			

\* Test Sample - 4"x6" - 0.032" matte cold-rolled steel with a 7 stage Iron Phosphate pretreatment.

CONNECT WITH US!



## PROUD TO BE YOUR RESOURCE FOR AIR DISTRIBUTION AND EQUIPMENT SOLUTIONS

Let us know how we can assist you in your next building application. For more information, contact your local Krueger representative or visit us on the web at [www.krueger-hvac.com](http://www.krueger-hvac.com).

### CLEAN ROOM SOLUTIONS

### HOSPITAL SOLUTIONS

### LABORATORY SOLUTIONS

### CHILLED BEAMS

### DISPLACEMENT VENTILATION

### TERMINAL UNITS

Single Duct  
Fan Powered  
Dual Duct  
Bypass & Retrofit

### FAN COILS & BLOWER COILS

Horizontal  
Vertical / Stack

### DIFFUSERS

Plaque & Architectural  
Louvered  
Perforated  
Modular Core  
Linear Slot  
Plenum Slot  
Round  
Air Nozzles

### GRILLES & REGISTERS

Supply  
Return  
Linear Bar  
Security  
Industrial  
Duct Mounted  
Transfer  
Stainless Steel



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