

PRODUCT FINISHES

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. Additionally, we offer a variety of Aluminum anodized colors for customers who may require the aesthetics and surface characteristics which these finishes offer.

Applied in our state-of-the-art paint facilities, Krueger product finishes take full advantage of the most current, cutting-edge technology available. From standard paint finishes, custom color matching, antimicrobial powder paint coatings, and Aluminum anodizing, Krueger has a product finish that is right for you.

Film Properties

PROPERTY	TEST METHOD	STANDARD E-COAT VALUE	STANDARD POWDER COAT VALUE	ANTIMICROBIAL POWDER COAT VALUE
Film Thickness	N/A	1.0 - 1.2 mils	2.3 - 3.7 mils	2.3 - 3.7 mils
Gloss: 60-degrees	ASTM D523-89	60 - 70%	60 - 70%	55 - 65%
Pencil Hardness	ASTM D3363-92A	HB - H	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	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	1/8" Conical Bend No Cracking Shows	1/8" Conical Bend No Cracking Shows

STANDARD POWDER PAINT

Description

Krueger's powder paint coatings are aesthetically pleasing, provide excellent physical and chemical resistance properties, and produce a durable uniform finish. Additionally, they are 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.

STANDARD LIQUID PAINT

Description

Krueger's standard paint selections use 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.

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 foodborne or infectious illnesses.*

PAINT & ANODIZE COLOR OFFERING

UNTREATED PRODUCTION MATERIAL	Mill (01)	Standard Paint Selection ¹
	British White (44)	

British White Antimicrobial (4A)	Optional Paint Selection ¹
Off White (49)	
Alumican (10)	
Alumican Antimicrobial (1A)	
Canyon Brown (32)	
Black (35)	

Clear Anodize (81)	Anodized Selection ²
Light Bronze Anodize (84)	
Medium Bronze Anodize (85)	
Dark Bronze Anodize (86)	
Black Anodize (87)	

RAL CLASSIC NUMBER OR CUSTOM COLOR SWATCH	Custom Color Match (07)	Custom Selection
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NOTES:

All finish types shown are NOT available with all products. Please see Krueger's Product Catalog or website for available finishes per product.

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

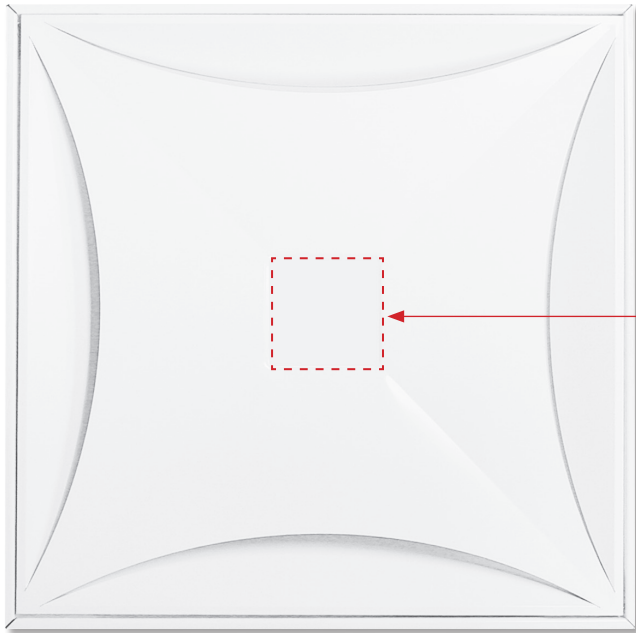
All finishes and colors shown serve as a guide only. Please contact your local Krueger Representative for an actual sample.

¹ Powder coat British White and Antimicrobial White are standard with certain critical environment products only. See Krueger for details.

² Anodized options are only available with select aluminum products. See Krueger for details.

ADVISORY: White can be used as a primer coat. For field finishing, white coating must be sanded lightly.

PRISM APPLIQUÉ COLORS

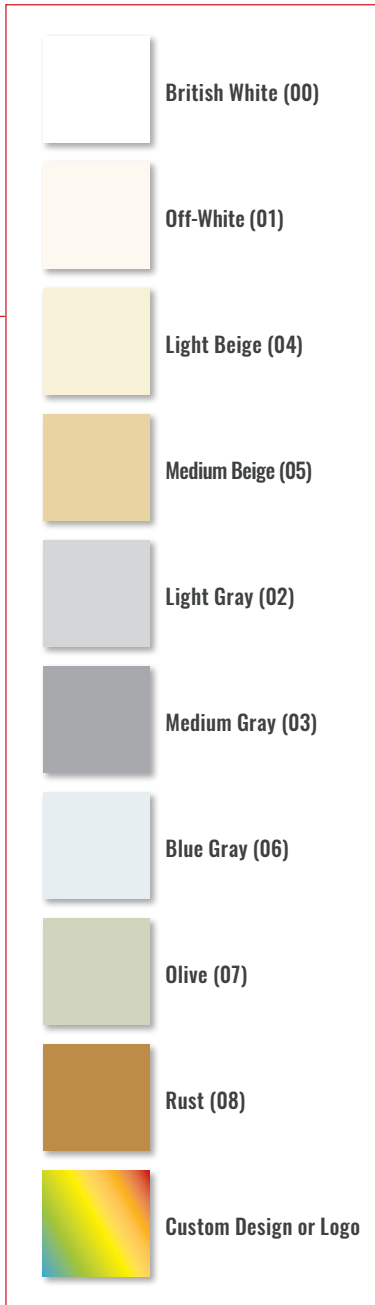


Prism shown above with appliqué location (red outline).

Prism Appliqué Specifications

The intended use for the appliqué is on the Krueger Prism ceiling diffuser (pg 4). The appliqués consist of a matte substrate with an adhesive backing and are individually die cut for precision and consistency. They are then fitted to a pre-formed square embossment in the center of the faceplate with the purpose of providing color. The appliqué is applied after the diffuser is painted. Appliqué specifications include: 0.017" Polycarbonate substrate with opacity film; 0.002" adhesive with peel-off backing; and 0.019" total thickness.

NOTE: These Prism appliqué colors may be ordered as Finish Code 07 for other GRD products.



NOTES:

A standard Prism diffuser is ordered with no center appliqué.

To add color, select from one of nine appliqué colors or provide artwork with a custom design or logo.

Setup fees will apply for any appliqué selection.

If appliqué color is desired as entire diffuser finish, additional fees will apply. See Krueger for details.