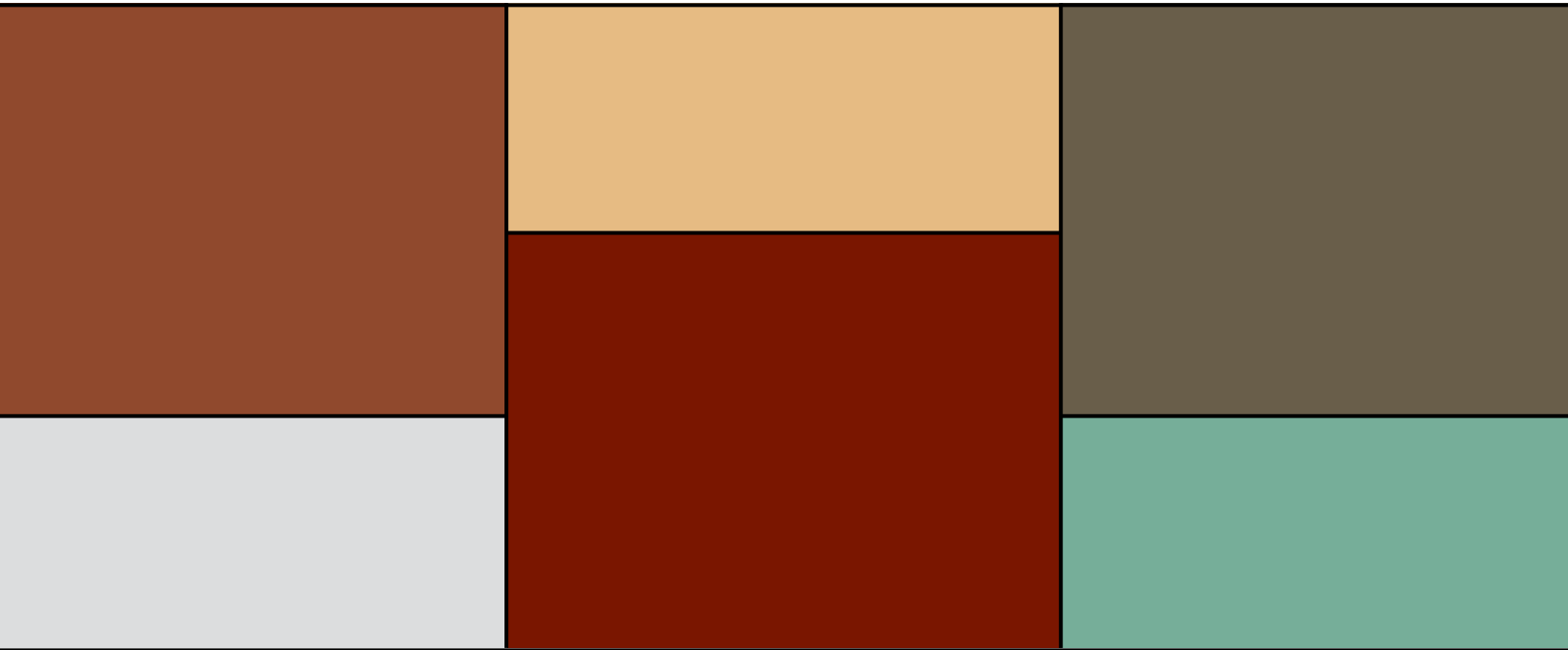


COLOR & COATING GUIDE >>

*A complete selection guide of
Johnson Controls finishes*



COLOR GUIDE

AVAILABLE FINISH COLORS POLYESTER POWDER COAT



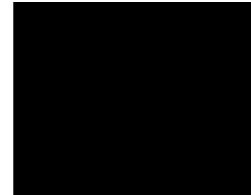
#81
PALE BROWN



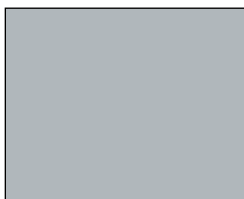
#83
CHOCOLATE BROWN



#85
TIMELESS BRONZE



#70
BLACK



#56
DOVE GRAY
(Standard)



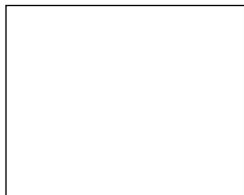
#73
SMOKE GRAY



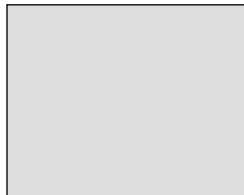
#79
PEPPERCORN



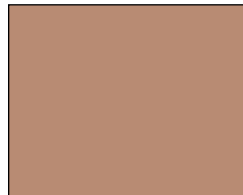
#94
CHARCOAL



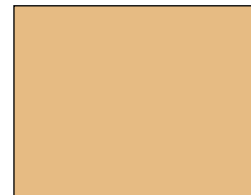
#61
PURE WHITE



#65
DOVER WHITE



#63
OXFORD BEIGE



#66
DESERT TAN



#77
BRICK RED



#55
PALE GREEN



#50
CHROME GREEN

Due to the limitations of the printing process, the colors shown may not be an exact match to the actual finished product. For confirmation of colors contact your Johnson Controls Representative to view actual paint samples.

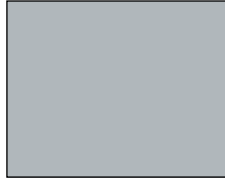
In cases where custom colors are required, a color sample must be sent to Johnson Controls for matching purposes. Consult factory for availability and pricing. Some colors require premium pricing.

Specifications are subject to change without notice.

COATING

POLYESTER POWDER COAT

Polyester Powder Coat is an electrostatically applied dry powder that melts and cures with heat to form a continuous and uniform coating. Properties include scratch and chip resistance, excellent outdoor protection, and good basic chemical resistance. Polyester is the most cost effective of all Powder Coatings.

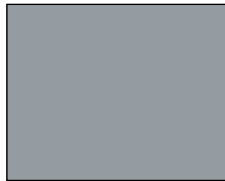


DOVE GRAY
(standard)

PROPERTY	TEST METHOD	VALUE
Gloss	ASTM D-523-94	85 minimum @ 60°
Adhesion	ASTM D-3359-97	100% (5B Pass)
Hardness	ASTM D-3363-92	H Pencil (Eagle)
Impact Resistance	ASTM D-2794-93	60 In.-lbs. Direct
Conical Mandrel	ASTM D-522-93	1/8" Mandrel - No Cracking
Salt Spray	ASTM B-117-97	700 Hrs. Pass
Humidity	ASTM D-2247-99	500 Hrs. - No Blisters
Max Service Temp	N/A	200° F
Coating Thickness	N/A	2-3 mils

EPOXY POWDER COAT

Epoxy Powder Coat is an electrostatically applied dry powder that melts and cures with heat to form a continuous and uniform coating. Properties include scratch and chip resistance, and excellent chemical resistance. A UV top coat may be applied to prevent the coating from chalking when exposed to sunlight.



LIGHT GRAY

PROPERTY	TEST METHOD	VALUE
Gloss	ASTM D-523-94	90 minimum @ 60°
Adhesion	ASTM D-3359-97	100% (5B Pass)
Hardness	ASTM D-3363-92	2H Pencil (Eagle)
Impact Resistance	ASTM D-2794-93	80 In.-lbs. Direct
Conical Mandrel	ASTM D-522-93	1/8" Mandrel - No Cracking
Salt Spray	ASTM B-117-97	1000 Hrs. Pass
Humidity	ASTM D-2247-99	1000 Hrs. Pass
Max Service Temp	N/A	200° F
Coating Thickness	N/A	2-3 mils

PHENOLIC EPOXY POWDER COATING

Phenolic Epoxy Powder Coat is an electrostatically applied dry powder that melts and cures with heat to form a continuous and uniform coating. Properties include scratch and chip resistance, and excellent chemical and corrosion resistance. A UV top coat may be applied to prevent the coating from chalking when exposed to sunlight.



DARK GRAY

PROPERTY	TEST METHOD	VALUE
Gloss	ASTM D-523-94	90 minimum @ 60°
Adhesion	ASTM D-3359-97	100% (5B Pass)
Hardness	ASTM D-3363-92	2H Pencil (Eagle)
Impact Resistance	ASTM D-2794-93	80 In.-lbs. Direct
Conical Mandrel	ASTM D-522-93	1/8" Mandrel - No Cracking
Salt Spray	ASTM B-117-97	1000 Hrs. Pass
Humidity	ASTM D-2247-99	1000 Hrs. Pass
Max Service Temp	N/A	200° F
Coating Thickness	N/A	2-3 mils

For coating materials not listed, please contact factory.

For more information, contact your local Johnson Controls Sales
Manufacturer Representative or visit us at www.johnsoncontrols.com

COATING

SILICONE 'HI TEMP' POWDER COAT

Silicone Powder Coat is electrostatically applied dry powder that melts and cures with heat to form a continuous and uniform coating. Specifically engineered to provide strong physical and good chemical resistant properties and maintain these properties when exposed to elevated temperatures.

*Application: Standard coating for Fumex - UL Smoke Control - Steel Wheels Only.

**Not for use on interior/exterior fan components. Please use our standard polyester powder if required.



BLACK

PROPERTY	TEST METHOD	VALUE
Gloss	ASTM D-523	5.0 - 9.0 @ 60°
Adhesion	ASTM D-3359	Initial - 100% (5B Pass)
Hardness	ASTM D-3363	2H Pencil (Eagle)
Impact Resistance	ASTM D-2794	80 In.-lbs. Direct
Conical Mandrel	ASTM D-522	1/8" Mandrel - No Cracking
Salt Spray	ASTM B-117	1000 Hrs. Pass
Humidity	ASTM D-1735	1000 Hrs. Pass
Max Service Temp	N/A	800° F
Coating Thickness	N/A	2-3 mils

URETHANE 'NON-STICK' POWDER COAT

Urethane Powder Coat is electrostatically applied dry powder that melts and cures with heat to form a continuous and uniform coating. Specifically engineered to be non-stick and resist marking while providing good physical and chemical resistant properties.



CLEAR

PROPERTY	TEST METHOD	VALUE
Gloss	ASTM D-523-94	Visually High
Adhesion	ASTM D-3359-97	100% (5B Pass)
Hardness	ASTM D-3363-92	6H Pencil (Eagle)
Impact Resistance	ASTM D-2794-93	10 In.-lbs. Direct
Conical Mandrel	ASTM D-522-93	1/4" Mandrel - No Cracking
Salt Spray	ASTM B-117-97	1000 Hrs. Pass
Humidity	ASTM D-2247-99	1000 Hrs. Pass
Max Service Temp	N/A	200° F
Coating Thickness	N/A	2-3 mils

AIR DRY HERESITE®

Heresite® VR-500 Series air dry phenolic is a liquid coating with good resistance to most common solvents, organic and inorganic acids. Outstanding properties include excellent durability, good adhesion, good film building characteristics and flexibility. Recommended as a heavy duty coating for exposures to splash, spillage and fumes. A UV top coat is required to prevent chalking when finished product is exposed to sunlight.



DARK GRAY

PROPERTY	TEST METHOD	VALUE
Gloss	N/A	N/A
Adhesion	N/A	N/A
Hardness	ASTM D-3363	4H
Impact Resistance	ASTM D-2794	≥25 In.-lbs. Direct
Conical Mandrel	N/A	N/A
Salt Spray	ASTM B-117	750 Hrs. Pass
Humidity	N/A	N/A
Max Service Temp	N/A	200° F
Coating Thickness	ASTM 1186	2-4 mils

For coating materials not listed, please contact factory.

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COATING

AIR DRY EPOXY

Epoxy is a durable coating required for corrosion, chemical and abrasion resistance. The dry film is resistant to bacterial attack. Common uses are laboratories, chemical processing equipment, schools, clean rooms, and marine applications. A UV top coat is required to prevent chalking when finished product is exposed to sunlight.



LIGHT GRAY

PROPERTY	TEST METHOD	VALUE
Gloss	N/A	N/A
Adhesion	ASTM D-4541	1050 PSI
Hardness	ASTM D-3363	F-H
Impact Resistance	ASTM D-2794	95 In.-lbs. Direct
Conical Mandrel	ASTM D-522	180° Bend - 1/4" Mandrel
Salt Spray	ASTM B-117	2500 Hrs, Pass
Humidity	ASTM D-4585	1000 Hrs., 100°F
Max Service Temp	N/A	200° F
Coating Thickness	N/A	2-4 mils

AIR DRY ENAMEL

Enamel is a good basic coating at the most affordable price. This coating is commonly used for color matching in architectural applications. Coating is excellent in non-corrosive and non-chemical environments.



GRAY

COLORS AVAILABLE TO MATCH
POLYESTER POWDERCOAT COLORS

Reference Guide

TECHNICAL PROPERTIES	POWDER COAT FINISH <i>(available in El Paso factory only)</i>					AIR DRY FINISH <i>(available in Lebanon factory only)</i>		
	Silicone	Epoxy	Phenolic Epoxy	Polyester	Urethane	Enamel	Epoxy	Heresite
Corrosion Resistance	Excellent	Excellent	Excellent	Excellent	Very Good	Fair	Excellent	Excellent
Chemical Resistance	Good	Excellent	Excellent	Good	Fair	Poor	Good	Good
Acid	Very Good	Very Good	Excellent	Fair	Fair	Poor	Excellent	Good
Alkaline	Fair	Very Good	Very Good	Fair	Fair	Poor	Excellent	Good
Solvent	Very Good	Excellent	Excellent	Good	Fair	Poor	Good	Fair
Humidity Resistance	Very Good	Excellent	Excellent	Excellent	Very Good	Fair	Good	Good
Exterior Durability	Excellent	Poor	Poor	Excellent	Excellent	Excellent	Good	Poor

NOTES:

Epoxy, Phenolic Epoxy and Heresite in both powder and air dry paint will chalk in sunlight. A UV top coat may be applied to prevent the coating from chalking. Chalking is not always a sign of coating failure or deterioration as is the case when exposed to UV or sunlight.

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