



**TCI**<sup>TM</sup>  
WHERE YOUR  
WORLD MATTERS

# TruDurance

Architectural Powder Coatings

AAMA 2604 **10000 Series**

AAMA 2605 **11000 Series**

10/21/2024

To Order: 800.533.9067 • 229.937.5411  
For More Information: [www.tcipowder.com](http://www.tcipowder.com)

# Specification Comparison Chart

Test Parameter	9000 Series AAMA 2603-22	10000 Series AAMA 2604-22	11000 Series AAMA 2605-22
	1-Year	5-Year	10-Year
Pretreatment	Multi stage cleaning and pretreatment system	Multi stage cleaning and pretreatment system, chrome and non-chrome	Multi stage cleaning and pretreatment system, chrome and non-chrome
Pretreatment Coating Weight	Non specified	Chrome 30mg/ft <sup>2</sup> minimum	Chrome 40mg/ft <sup>2</sup> minimum
Film Thickness	2-4 mils	2-4 mils	2-4 mils
Repairability	See film touch up and repair procedures		
Sealant Compatibility	Meet performance requirements of AAMA 800 sealant specification		
Hardness	H-2H	H-2H	H-2H
	Values represent TCI product characteristics		
Dry Adhesion	No loss of adhesion		
Wet Adhesion	No loss of adhesion		
Boiling Water Adhesion	No loss of adhesion		
Impact Resistance	No film removal on min. 3 mm deformation		
Abrasion Resistance	N/A	Abrasion coefficient $\geq$ 20 min	Abrasion coefficient $\geq$ 40 min
Muriatic Acid	No change after 15 minute spot test		
Mortar Resistance	No adhesion loss or appearance change after 24 hour pat test		
Nitric Acid Resistance	N/A	5 DE max color change after 30 minute vapor exposure	
Detergent	No change or adhesion loss after 72 hour immersion		
Window Cleaner	N/A	No change or adhesion loss after 24 hour spot test	
Humidity Resistance	1,500 hours: no more than "few" blisters size 8, figure #4 ASTM D 714	3,000 hours: no more than "few" blisters size 8, figure #4 ASTM D 714	4,000 hours: no more than "few" blisters size 8, figure #4 ASTM D 714
Corrosion Resistance	1,500 hours of salt solution: minimum rating of 7 on scribe or cut edges: minimum blister rating of 8 in the field (ASTM D 1654) ASTM D 714	1,500 hours of cyclic corrosion per ASTM G85, Annex 5: minimum rating of 7 on scribe or cut edges: minimum blister rating of 8 in the field (ASTM D 1654)	2,000 hours of cyclic corrosion per ASTM G85, Annex 5: minimum rating of 7 on scribe or cut edges: minimum blister rating of 8 in the field (ASTM D 1654)
Outdoor Resistance	1 year south Florida: maintain film integrity; no adhesion loss, slight chalking or fading	5 years south Florida: maintain film integrity; 5 DE (Hunter) maximum color change; chalking (ASTM D 4214) $\leq$ 8; gloss retention $\geq$ 30%; erosion resistance less than 10% film loss	10 years south Florida: maintain film integrity; 5 DE (Hunter) maximum color change; chalking (ASTM D 4214) $\leq$ 8; gloss retention $\geq$ 50%; erosion resistance less than 10% film loss

For more information please contact your TCI Sales Representative.

# Product Formula Legend

## First Number = Resin Type, 9801-1000 (example)

1 = Low Cure	7 = Epoxy
2 = Acrylic	8 = Urethane
3 = High Temperature	9 = TGIC Polyester
4 = Specialty	10 = Super Durable TGIC
5 = HAA (TGIC-Free)	11 = Fluoropolymer
6 = Hybrids	

## Second Number = 60° Gloss Reading, 9801-1000 (example)

0 = 0-9	5 = 50-59
1 = 10-19	6 = 60-69
2 = 20-29	7 = 70-79
3 = 30-39	8 = 80-89
4 = 40-49	9 = 90+

## Third Number = Cure Response, 9801-1000 (example)

Time at metal temp for full cure

0 = 12 min. @ 400° F	5 = 10 min. @ 300° F
1 = 10 min. @ 400° F	6 = 10 min. @ 275° F
2 = 10 min. @ 375° F	7 = 10 min. @ 250° F
3 = 10 min. @ 350° F	8 = Fast Cure - See TDS
4 = 10 min. @ 325° F	for recommended cure

## Surface Type



← S	Smooth
T	Textured
A	Anodized
M	Metallic

## Fourth Number = Surface Appearance, 9801-1000 (example)

0 = Smooth	4 = Vein
1 = Metallic	5 = Hammertone
2 = Sand	6 = Multi-Color
3 = Orange Peel	7 = Wrinkle

## Fifth Series = RAL Color System, 9801-1000 (example)

0 = Clears & Metallics	5 = Blues
1 = Yellows & Beiges	6 = Greens
2 = Oranges	7 = Grays
3 = Reds	8 = Browns
4 = Violets	9 = Blacks and Whites

## Extension = Fill Size, 9801-1000-BX55 (example)

-BX25 = 25lb. Box
-BX50 = 50lb. Box
-BX55 = 55lb. Box

*\*Alternate fill sizes may be available, reach out to your local sales representative to learn more*



TCI's TruDurance architectural powder coatings have outstanding long-term durability, including excellent color and gloss retention. In addition, these products exhibit impressive corrosion, mar, and scratch resistance as well as over-bake stability on the applicators line. Our products are environmentally responsible and offer a great alternative to other coating options. The 10,000 series products are AAMA 2604 quality, 11,000 series are AAMA 2605 and products can be matched in TGIC-free chemistry at your request. TCI also offers quick turnaround times on color matches and small batch orders.



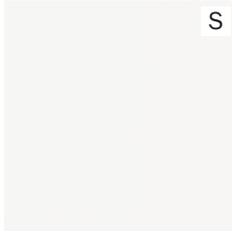
For more information please contact your TCI Sales Representative.

# Matching AAMA 2604 & 2605\* Colors

Product Name  
AAMA 2604 Code  
AAMA 2605 Code  
Gloss Range



White  
10710-91840-BX55  
11710-92950-BX55  
65-75



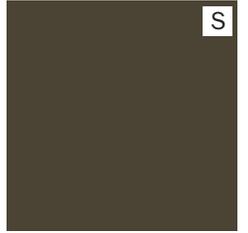
Sky White II  
10810-91787-BX55  
11710-92256R-BX55  
70-80



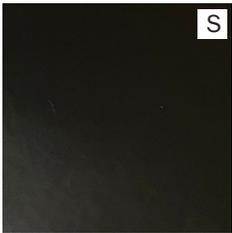
New Bone White  
10510-91922A-BX55  
11510-92253R-BX55  
50-59



MR GW Bronze  
10310-82279-BX55  
11210-82371-BX55  
25-35



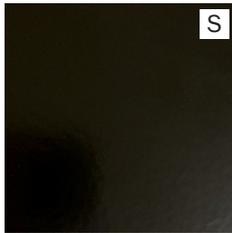
Earthtone  
10410-81103-BX55  
11410-81963-BX55  
35-45



Resemble Black  
10010-93613-BX55  
11010-93562-BX55  
9-15



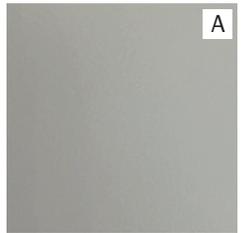
Dark Bronze  
10410-81104-BX55  
11410-81999-BX55  
35-45



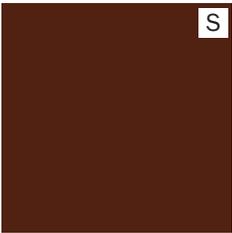
Coal Black II  
10410-92910-BX55  
11510-92940-BX55  
44-55



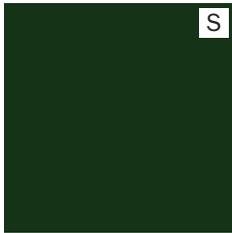
Black Tex  
10012-91616-BX55  
11012-91468-BX55  
3-7



Bonded Anodized Silver  
10211-02558-BX55  
11311-02559-BX55  
20-35

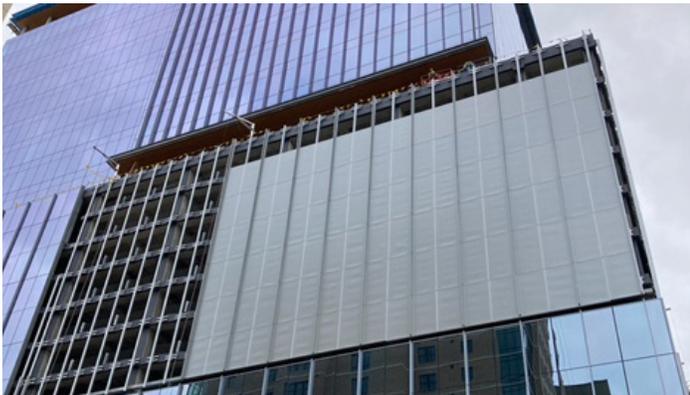


Redwood II  
10410-30668-BX55  
11410-30698-BX55  
40-49



Holly Green II  
10410-62009-BX55  
11410-62073-BX55  
40-49

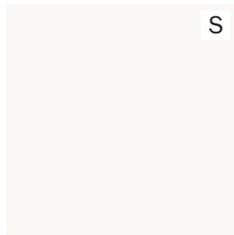
\*Non-bonded 2605 orders up to 275lbs have a 10 working day turnaround time



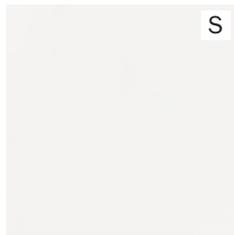
This digital color card is for reference only and variations between colors shown here and the actual product may exist. Please reach out to your TCI Sales Representative for product samples.

# AAMA 2604 Colors

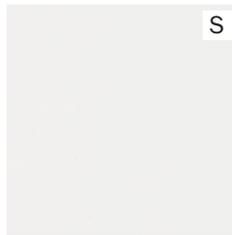
Product Name AAMA 2604 Code Gloss Range
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AB White  
10810-93259-BX55  
75-85



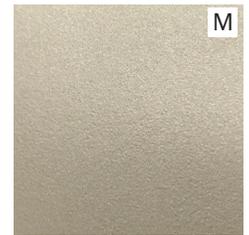
KL HG White  
10820-93171-BX55  
85-95



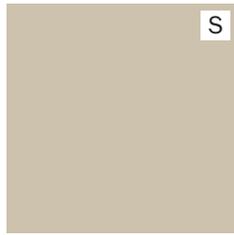
Bone White  
10310-91095-BX55  
35-45



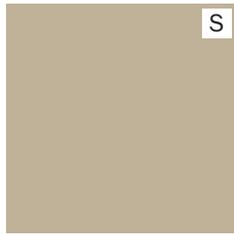
KL White Tex  
10022-93172-BX55  
3-5



Anodized Champagne LR  
100110-01993-BX55  
5-10



Satin Creme  
10410-12088-BX55  
40-49



Tan II  
10510-13476-BX55  
45-55



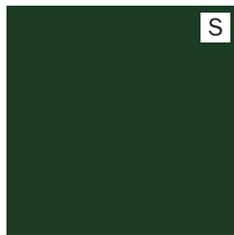
Beige  
10610-12080-BX55  
60-69



Toffee  
10510-81101-BX55  
45-55



Teal  
10310-61545-BX55  
30-39



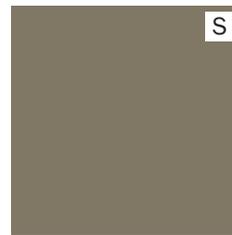
Moss Green  
10310-62208-BX55  
30-39



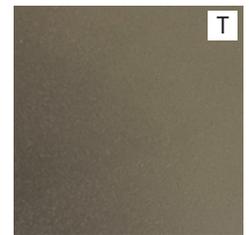
Bonded Grey Metallic III  
10511-02370-BX55  
50-60



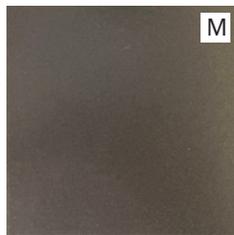
7500N Grey  
10310-72798-BX55  
30-39



Slate Grey  
10410-74084-BX55  
35-45



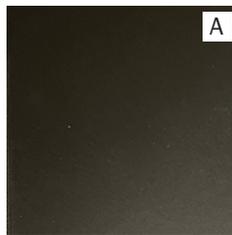
Bonded Tex Bronze  
10021-02630-BX55  
5-10



Bonded MR Bronze  
10421-02272-1-BX55  
30-40



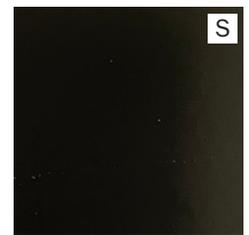
AB Bronze  
10210-82186-BX55  
20-29



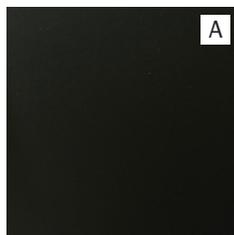
Anodized DK Bronze  
10010-82174-BX55  
3-5



MR Satin Black  
10620-92514-BX55  
60-69



Matte Black  
10410-92435-BX55  
30-40



Anodized Black  
10010-93242-BX55  
3-5



SG Fence Black  
10410-93175-BX55  
35-45



Black Pearl  
10610-93628-BX55  
60-69



Black Mountain Tex  
10012-93130-BX55  
2-4



Anodized Dark Bronze LR  
100110-01992-BX55  
0-9

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# AAMA 2604 Colors

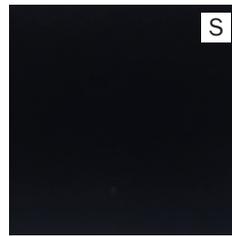
Product Name  
AAMA 2604 Code  
Gloss Range



Bronze  
10511-0997-BX55  
50-59



New Dark Bronze  
10310-82177-BX55  
30-39



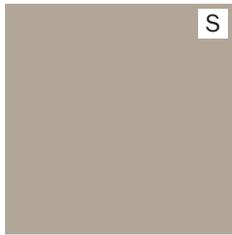
Satin Black  
10620-92153A-BX55  
60-69

# AAMA 2605\* Colors

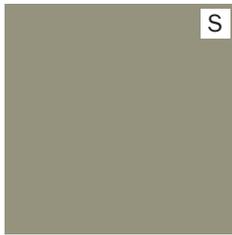
Product Name  
AAMA 2605 Code  
Gloss Range



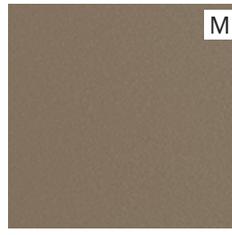
Light Breeze  
11410-13543-BX55  
40-49



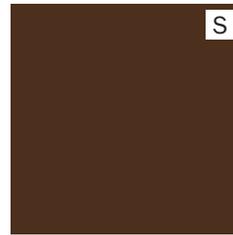
Delrey Beige  
11410-13663-BX55  
40-49



Dalco Desert  
11410-13639-BX55  
40-49



Golden Bronze  
11211-02657-BX55  
20-30



SG Brown  
11410-82341-BX55  
40-49



Bonded Sterling Metallic  
11321-02758-BX50  
35-45



Black Grey  
11410-74541-BX55  
40-49



Bonded Charcoal Metallic  
11411-02613-BX55  
35-45



Sunstorm Bronze  
11311-02881-BX55  
30-40



KL Bronze Tex  
11011-02574-BX55  
3-6

\*Non-bonded 2605 orders up to 275lbs have a 10 working day turnaround time

Please note, all non-metallic 2605 products are made to order with a 5-10 Working Day lead-time for orders of 350 lbs. or less. Metallic 2605 products require an 8 week lead-time and have a 250 lb. minimum order size. 2605 products are available in 25 or 55 lb. fill sizes, with a minimum order quantity of 55 lbs. for non-metallic 2605's.

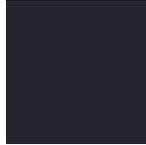
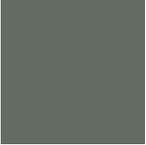
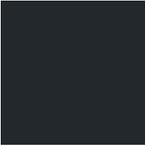
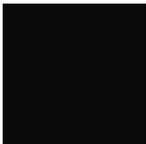
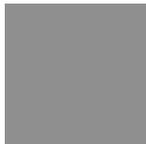
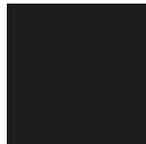
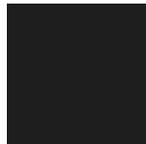


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# Stock AAMA 2604 RALs

RAL Number
Product Name
Product Code

These RAL products meet the AAMA 2604 specification. Stock options subject to change, please check with your local TCI sales representative for MTO lead times.

							
RAL 1019 Green Beige 9840-11916R-BX25	RAL 3005 Wine Red 9840-30191R-BX25	RAL 3009 Oxide Red 9840-30211R-BX25	RAL 5001 Green Blue 9840-50936R-BX25	RAL 5004 Black Blue 9940-50971R-BX25	RAL 5005 Signal Blue 9840-50920R-BX25	RAL 5008 Grey Blue 9840-50948R-BX25	RAL 5009 Azure Blue 9840-50910R-BX25
							
RAL 5017 Traffic Blue 9840-50955R-BX25	RAL 5019 Capri Blue 9840-50915R-BX25	RAL 5020 Ocean Blue 9840-50914R-BX25	RAL 5021 Water Blue 9840-50912R-BX25	RAL 6003 Olive Green 9840-61312R-BX25	RAL 6004 Blue Green 9840-61271R-BX25	RAL 6013 Reed Green 9840-61314R-BX25	RAL 6021 Pale Green 9840-61279R-BX25
							
RAL 7004 Signal Grey 9840-72034R-BX25	RAL 7005 Mouse Grey 9840-72045R-BX25	RAL 7006 Beige Grey 9840-71973R-BX25	RAL 7009 Green Grey 9840-72097R-BX25	RAL 7010 Tarpaulin Grey 9840-72096R-BX25	RAL 7012 Basalt Grey 9840-72011R-BX25	RAL 7013 Brown Grey 9840-72008R-BX25	RAL 7015 Slate Grey 9840-71996R-BX25
							
RAL 7016 Anthracite Grey 9840-72121R-BX25	RAL 7021 Black Grey 9840-72122R-BX25	RAL 7022 Umbra Grey 9840-71995R-BX25	RAL 7023 Concrete Grey 9840-72106R-BX25	RAL 7024 Graphite Grey 9840-72053R-BX25	RAL 7031 Blue Grey 9840-72112R-BX25	RAL 7037 Dusty Grey 9840-72007R-BX25	RAL 7038 Agate Grey 10310-71747-BX55
							
RAL 7039 Quartz Grey 9840-71972R-BX25	RAL 7042 Traffic Grey A 9840-71994R-BX25	RAL 7043 Traffic Grey B 9840-72047R-BX25	RAL 7045 Telegrey 10310-71751-BX55	RAL 8019 Grey Brown 9840-81018R-BX25	RAL 8022 Black Brown 9840-81054R-BX25	RAL 8025 Pale Brown 9840-80985R-BX25	RAL 9004 Signal Black 9840-91793R-BX25
							
RAL 9005 Jet Black 9940-91748R-BX25	RAL 9006 White Aluminum 9841-01492R-BX25	RAL 9007 Grey Aluminum 9841-01493R-BX25	RAL 9011 Graphite Black 9840-91747R-BX25	RAL 9017 Traffic Black 9840-91743R-BX25			

TCI's RAL products have been matched to original RAL color master standards. They have a gloss range of 80-95° and are packaged in 25 lb. containers.

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# 9000 Series



## AAMA 2603 Specification

TCI 9000 Series Polyester Systems have the broadest formulating range in color and gloss, and many will meet or exceed AAMA 2603 performance requirements. Products in this series have a 60° gloss range of 5-90° + and meet many decorative and functional requirements for chemical resistance, physical properties, color, gloss, and weatherability. High chroma colors are also available. Typical uses include aluminum extrusions, playground equipment, agricultural equipment, and machinery.

# 10000 Series



## AAMA 2604 Specification

The TCI 10000 Series Superior Exterior Performance Polyester Systems are formulated to meet the requirements of the AAMA 2604 specification. Products in this series have a 60° gloss range of 5-90° + and are available in a wide selection of colors. Proper chrome or non-chrome pretreatment is critical for product performance. Chromium Chromate or chromium phosphate coating weights should be a minimum of 30 mg/ft<sup>2</sup>. Alternative chrome and/or non-chrome conversion coatings should be maintained according to supplier's recommendations. A TCI technical representative must audit each application system to ensure products will meet the 2604 specification.

# 11000 Series

## AAMA 2605 Specification

The TCI 11000 Series Highest Exterior Performance Organic Systems are formulated to meet the requirements of the AAMA 2605 specification. Products in this series, with the exception of anodized products, have a 60° gloss range of 25-70° + and are available in many colors. Proper amorphous chromium phosphate or amorphous chromate pretreatment is critical for product performance. Chromium chromate or chromium phosphate coating weights should be a minimum of 40 mg/ft<sup>2</sup>. Alternative chrome and/or non-chrome conversion coatings should be maintained according to supplier's recommendations. A TCI technical representative must audit each application system to ensure products will meet the 2605 specification.



# TruDurance

## TCI Certified Applicator

TCI field technicians are trained to audit all aspects of the powder coating operation to determine the customer's ability to achieve AAMA requirements. TCI runs a variety of tests that evaluate the performance of our powder coatings in the customer's process and continues with bi-annual renewal audits to ensure the process parameters have not changed without notification. For TCI Certified Applicators, warranties are available for 2603, 2604, and 2605 applications.



300 Martin Marietta Drive, Americus, GA 31719

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10/21/2024