

## Specifications

### Description

DuraTech 5000 is a premium fluoropolymer (PVDF) coating system. DuraTech mx is a premium fluoropolymer (PVDF) pearlescent coating system. When applied and cured on properly prepared substrates, DuraTech coatings exhibit exceptional color stability, chalk resistance, durability, abrasion resistance, chemical resistance and flexibility.

### Composition & Application

DuraTech 5000 and DuraTech mx coatings shall contain a minimum of 70% fluoropolymer resin. These coating systems, including primer, are to be applied by coil coaters experienced in handling 70% Kynar 500® or Hylar 5000® PVDF resin-based coatings.

### Zincalume® Substrate

The Zincalume® and Galvalume® coatings are AZ50 and is comprised of a 45% zinc, and 55% aluminum alloy by weight.

### Pretreatment

All substrates are pre-treated in accordance with manufacturer's instructions. The pretreatment is to provide a suitable surface for application of the recommended primer.

### Colors

DuraTech 5000 and DuraTech mx are available in a wide selection of pre-formulated standard colors, which is shown on chart. Custom colors can also be formulated.

### Gloss

DuraTech 5000 coatings are supplied with a gloss of 10-30% at 60° per ASTM D-523. DuraTech mx (metallics) have a gloss rating of 20-35% at 60° per ASTM D-523.

### Film Thickness

The nominal dry film thickness for DuraTech coatings is a nominal 1.0 mil. The primer is applied with a 0.15-0.30 mil and top coat is applied at a nominal 0.70-0.80 mils.

Thick Film - A high-build DuraTech 5000 or DuraTech mx coating system is also available on special order. It is normally applied at a total dry film thickness of 1.5-2.0 mils. For this system, high build primer is applied at a nominal 0.8-1.2 mils and topcoat is applied at a nominal 0.70-0.80 mils.

Clear Coat - A 0.5 mil clear coat also available on special order.

Zincalume® is a registered trademark of BlueScope Limited.  
Galvalume® is a registered trademark of BIEC International, Inc.

## Oil Canning

All flat metal surfaces can display waviness commonly referred to as "oil canning". This is caused by steel mill tolerances, variations in the substrate and relative reflectivity of the material. "Oil canning" is an inherent characteristic of steel products, not a defect, and therefore is not a cause for panel rejection.

## Colors by Request

AEP Span continues to carry on the tradition of matching custom colors. Show us the color you want and AEP Span will supply it.

## Technical Support

Consult with a Technical Representative to specify appropriate materials and finishes for individual project conditions. Actual panel and color samples are available upon request.

TESTS	ASTM TEST *	PERFORMANCE
<b>Physical Properties and Durability</b>		
Specular Gloss	D-523	10-35°
Pencil Hardness	D-3363	HB minimum
Formability, 1/8" Mandrel Test 180(0) Bend	D-522	No evidence of cracking, no loss of adhesion**
Adhesion	D-3359	No adhesion loss
Reverse Impact	D-2794	No cracking or loss of adhesion
Abrasion, Falling Sand	D-968	80 liters
<b>Atmospheric and Pollutant Resistance</b>		
Acid Pollutants	D-1308	
	Hydrochloric Acid (18 hrs)	No bleaching
	20% Muriatic Acid (15 min)	No color change, no blistering
	25% Sodium Hydroxide (1 hr)	No color change, no blistering
Acid Rain Test	Kesternich	15 cycles minimum
Alkali Resistance	Kesternich	No effect
Salt Spray Resistance 5% @ 95°F	B-117	Passes 3,000 hrs. aluminum, Passes 2,000 hrs. coated steel**
Cyclic Salt Fog	B-5894	3000 hours - passes adhesion per ASTM D-3359, ASTM D-714 rating of panels was an #8 size blisters, few in density. Creep from scribe <3.00 mm.
Humidity Resistance 100% @ 95°F	D-2247	Passes 3,000 hrs. aluminum, Passes 1,000 hrs. coated steel**
<b>Weathering</b>		
South Florida exposure	D-2244	<5 NBS units change
UVB (313 bulbs)	D-822	Passes, 3,000 hrs.
Chalk Resistance	D-659	Rating of 8 min.

\*All tests performed to the latest ASTM revision. The test results set forth are representative of the results obtained by Valspar. Warranties of the product are exclusively as set forth in the applicable contract documents.

\*\* Performances on G-90, Zincalume, Galvalume.

Kynar 500® is a registered trademark of Arkema Inc.,  
Hylar 5000® is a registered trademark of Ausimont USA, Inc.

## 30 Year Warranty

Warranties for chalk, fade and film integrity are available in durations of 30 years for DuraTech 5000 colors and 25 years for DuraTech mx (metallics). Terms can be affected by factors such as environment. Inquire for details.

**Sales and Technical Support:**  
Fontana, CA & Tacoma, WA  
800-733-4955, 253-383-4955, fax 253-272-0791



A BlueScope Steel Company

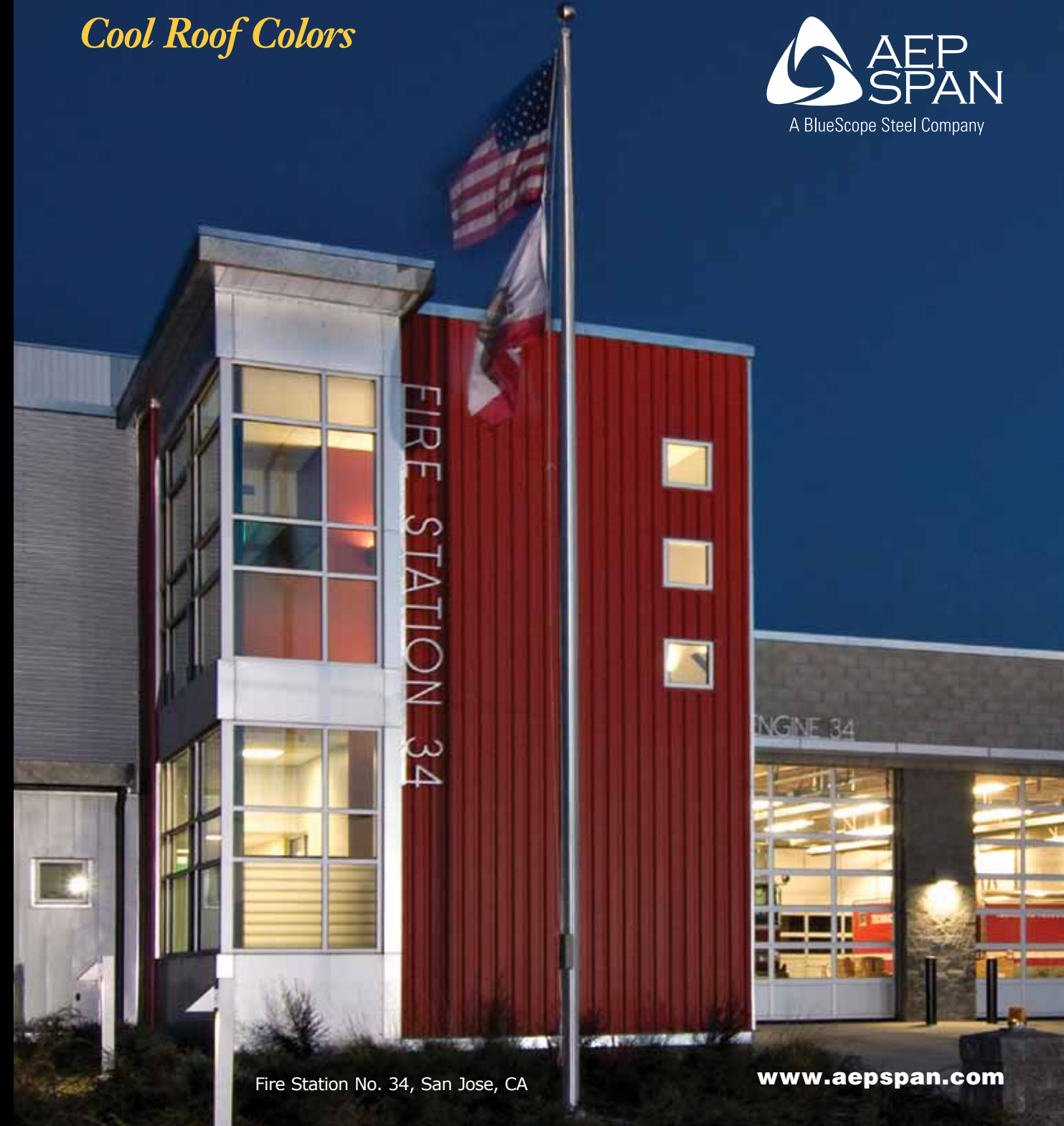
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## AEP Span

Architectural Products in DuraTech® Colors and Finishes

# COLOR

## Cool Roof Colors



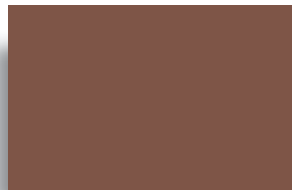
Fire Station No. 34, San Jose, CA

[www.aepspan.com](http://www.aepspan.com)

# Premium Colors & Coating Systems

## Non-Standard DuraTech® Colors & Finishes

**NON-STANDARD.** The colors below are offered as part of the AEP Span DuraTech® color palette but will be supplied as a Non-Standard color. Contact an AEP Span representative for lead times, costs and minimum quantities.



Cool Rustique®



Cool Antique Patina¹



Cool Aegean Copper¹



Vintage®

### Introducing VINTAGE®

Vintage® is a premium finish providing the distinguished appearance of exposed steel, with the benefit of a 20 year chalk and film integrity warranty. Vintage® is offered over galvanized, G90 steel for long-lasting performance, and available in all AEP Span panels, making Vintage® the perfect choice for architectural applications. Contact AEP Span today for more information about making Vintage® a part of your next project.

## Profile availability by Gauge in DuraTech®5000, DuraTech®mx (metallic), Copper^ and Aluminum

Profile	Net Coverage	24 Ga	22 Ga	20 Ga	18 Ga	Copper	Aluminum	Location
Box Rib	36"	•	•***	*	†			F
Design Span® bp /Batten	17", 12"	•	•***					F/T
	18", 24"	†	†			^		F/T
HR-36® Roof or Wall	36"	•	•***	*	†			T/F
Klip-Rib®	16"	•	•***					T
Mini V Beam	32"	•	•***	†	†			T
NuWave® Corrugated	32", 34½"	•	•***	*				F
Prestige Series®	12"	•	•***	F	F			T/F
Reversed Box Rib	36"	•	•***	*	†			F
Select Seam® Narrow Batten	16"	•	•***			†		T/F
	21¼"	•	•***			†		T/F
Select Seam® Wide Batten	17¼"	•	•***			†		T/F
	22½"	•	•***			†		T/F
Span-Lok bp 2" Rib ht.	16"	•	•***					T/F
Span-Lok Curved 2" Rib Ht	16"	•	•***				†	T/F
SpanSeam 2" Rib ht.	16"	•	•***				†	T/F
SpanSeam 2" Rib ht.	12"	†	†				†	T/F
46" Flat Sheet		•	•***	*	†			T/F
48-3/8" Flat Sheet		•	•***					T/F

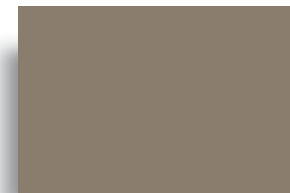
### LEGEND

- Standard offer
- † Offered as a non-standard product.
- ^ Copper not offered from Tacoma, WA.
- \* Standard in bare Zincalume only. Non-standard in all colors.
- \*\*\*Available in selected colors
- T = Tacoma, WA
- F = Fontana, CA

1. METALLIC COATINGS NOTE: Minor differences in both color and appearance are normal and to be expected with metallic coatings, as it is virtually impossible to match one metallic coating to another. Due to the coil application process, striations and longitudinal patterning may also show on these products. To minimize the possible visual effects of the normal minor differences in paint and its application, an entire job should be painted at one time. Additionally, fabricated panels, flat sheets, and flashings should be orientated in the same direction for installation.

# AEP Span Standard Colors & Coating Systems

## DuraTech 5000 Colors



Cool Zinc Grey  
R .36 • E .87 • SRI 39



Cool Colonial Red  
R .33 • E .87 • SRI 35



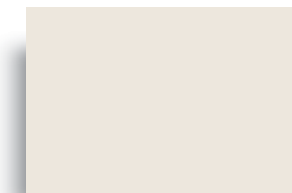
Cool Marine Green  
R .41 • E .86 • SRI 45



Cool Old Town Gray  
R .38 • E .87 • SRI 41



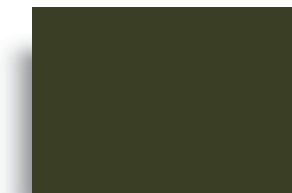
Cool Parchment  
R .50 • E .86 • SRI 57



Cool Regal White  
R .70 • E .86 • SRI 85



Cool Red  
R .44 • E .86 • SRI 49



Cool Dark Bronze  
R .34 • E .87 • SRI 36



Cool Sierra Tan  
R .50 • E .87 • SRI 57



Cool Weathered Copper  
R .36 • E .87 • SRI 38



Cool Forest Green  
R .29 • E .87 • SRI 29



Cool Tahoe Blue  
R .30 • E .86 • SRI 30



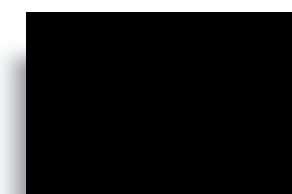
Cool Terra-Cotta  
R .38 • E .87 • SRI 41



Cool Regal Blue  
R .30 • E .85 • SRI 30



Cool Leaf Green  
R .29 • E .86 • SRI 29



Cool Matte Black  
R .30 • E .85 • SRI 30



Cool Hemlock Green  
R .30 • E .86 • SRI 30



Cool Jade Green  
R .30 • E .87 • SRI 31

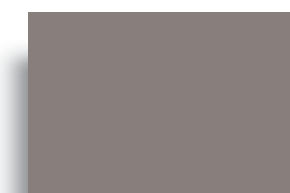
## DuraTech mx Colors \*subject to upcharge



Cool ZACTique II 1\*  
R .35 • E .84 • SRI 36



Cool Metallic Copper 1\*  
R .51 • E .86 • SRI 58



Cool Metallic Silver 1\*  
R .53 • E .79 • SRI 59



Cool Metallic Champagne\*  
R .47 • E .85 • SRI 53

R = Solar Reflectivity (ASTM E-903, C-1549)  
E = Emissivity (ASTM C-1371)  
SRI = Solar Reflective Index (ASTM E-1980, based on medium wind speed)

Color swatches are for reference only - limited by printing process and viewing conditions. Actual color samples are available upon request. Please contact your AEP Span representative.

