

AEP Span Standard Colors & Coating Systems

DURATECH 5000 COLORS



Cool Zinc Grey
R 38.6 • E .85 • SRI 41



Cool Colonial Red
R 30.1 • E .85 • SRI 38



Cool Marine Green
R 40.5 • E .86 • SRI 44



Cool Old Town Gray
R 40.5 • E .85 • SRI 44



Cool Parchment
R 52.6 • E .83 • SRI 60



Cool Regal White
R 72.2 • E .86 • SRI 88



Cool Red
R 40.5 • E .86 • SRI 44



Cool Dark Bronze
R 28.7 • E .83 • SRI 27



Cool Sierra Tan
R 49.1 • E .86 • SRI 56



Cool Weathered Copper
R 32 • E .86 • SRI 33

Build Green with AEP

AEP Span helps you design and build sustainable projects that look great and stand the test of time. All AEP Span profiles are made from recycled steel and are offered in a full spectrum of energy saving Cool Colors. These standard DuraTech 5000 Cool Colors come with a 30 year warranty. Contact your AEP Span representative for more information.



Cool Forest Green
R 29.5 • E .84 • SRI 29



Cool Tahoe Blue
R 28.9 • E .85 • SRI 25



Cool Terra-Cotta
R 35.5 • E .86 • SRI 38



Cool Regal Blue
R 26.8 • E .85 • SRI 26



Cool Leaf Green
R 25.5 • E .84 • SRI 23



Cool Matte Black
R 25.4 • E .83 • SRI 23



Cool Hemlock Green
R 31.9 • E .85 • SRI 32



Cool Jade Green
R 26.5 • E .84 • SRI 25

DURATECH MX COLORS



*Cool ZACtique II*¹
R 31.3 • E .85 • SRI 32



*Cool Metallic Copper*¹
R 43.1 • E .85 • SRI 47



*Cool Metallic Silver*¹
R 48.9 • E .88 • SRI 56



*Cool Metallic Champagne*¹
R 44.8 • E .85 • SRI 50

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.



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.

Substrate

The Zinalume® 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

DuraTech coatings are applied at a total dry film thickness of 1.0 -1.1 mils. The primer is applied at 0.2 mils and topcoat is applied at a nominal 0.8-0.9 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 1.8-2.0 mils. For this system, high build primer is applied at a nominal 0.9-1.0 mils and topcoat is applied at a nominal 0.9-1.0 mils.

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

Zinalume® 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.

TESTS

ASTM TEST *

PERFORMANCE

Physical Properties and Durability

Specular Gloss	D-523	10-35°
Pencil Hardness	D-3363	HB-H
Flexibility, T-Bend Mandrel	D-4145	1-T aluminum 2-T coated steel**
Adhesion	D-3359	No adhesion loss
Reverse Impact	D-2794	No cracking or loss of adhesion
Abrasion, Falling Sand	D-968	65-85 l/mil
Mortar Resistance	C-267	No effect
Detergent Resistance 3% Detergent, 100°F, (72 hrs.)	D-2248	No effect

Atmospheric and Pollutant Resistance

Acid Pollutants	D-1308 10% Muriatic Acid (15 min) 20% Muriatic Acid (15 min) AAMA 605.2	No effect No effect <5 units color change
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 1,000 hrs. coated steel**
Cyclic Salt Fog	B-5894	2000 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**

Weathering

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 BASF. Warranties of the product are exclusively as set forth in the applicable contract documents.

**Performances on G-90, Zinalume, Galvalume and other approved zinc/aluminum coated steel.

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

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

Call AEP Span to consult with a Technical Representative to specify appropriate materials and

finishes for actual project conditions. Actual panel samples and colors are available upon request.

30 Year Warranty

Warranties for chalk, fade and film integrity are available in durations of 30 years for DuraTech 5000 colors and 20 years for DuraTech mx (metallics). Terms can be affected by factors such as environment. Inquire for details.



Sales Support:

Fontana, CA 800-272-2466, 909-823-0401, fax 909-823-2625
Tacoma, WA 800-733-4955, 253-383-4955, fax 253-272-0791
Dallas, TX 800-527-2503, 214-827-1740, fax 214-828-1394
Kernersville, NC 800-527-2503, 214-827-1740, fax 214-828-1394

Technical Support:

In CA, NV, AZ, NM, CO, UT, and HI call (800) 400-3867
AK, WA, OR, ID, MT, WY, CO (800) 447-2477
East of the Rockies call (800) 527-2503