

BRIGHTSMITH

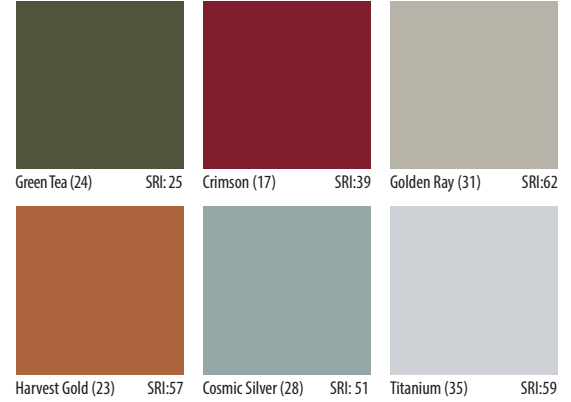
COATERS



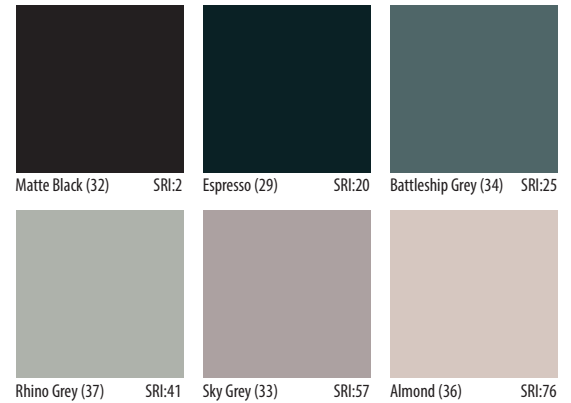
PVDF Color Series



Premium Finish



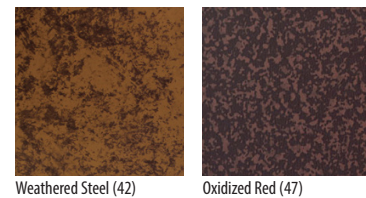
Matte Finish



Woodland Series



Oxide Series



BRIGHTSMITH COATERS SPECIFICATIONS:

Coil coated PVDF finishes shall meet the following performance criteria:

Property	Result-Aluminum	Result-Steel	Test Designation
60° Specular Gloss	25-40	25-40	ASTM D 523
Pencil Hardness	HB-2H	HB-2H	ASTM D 3363 NCCA 11-12
Flexibility: T-Bend Mandrel	2-T (1) No cracking	2-T (1) No cracking	ASTM D 4145, (NCCA 11-19) No cracking or tape removal of film ASTM D 522 180 bend around 1/8" mandrel
Adhesion: Impact Reverse Impact	Acceptable (2) Acceptable (2)	Acceptable (2) Acceptable (2)	ASTM D 3359, (NCCA 11-5) ASTM D 2794, (NCCA 11-6)
Abrasion: Falling Sand Transit	50 liters minimum No disfigurement	50 liters minimum No disfigurement	ASTM D 968 Method A
Acid Pollutants	No effect No effect <5 u. color change Hunter ΔE units	No effect No effect <5 u. color change Hunter ΔE units	ASTM D 1308, Proc. 6.2 10% Muriatic acid, 15 min. ASTM D 1308, Proc. 6.2 20% sulfuric acid, 18 hrs. AAMA 2605, TEST # 7.7.3.3 70% nitric acid vapors, 30 min.
Acid Rain Test	10 cycles minimum No objectionable color change	10 cycles minimum No objectionable color change	KESTERNICH Sulfur dioxide cyclic test
Accelerated Tests			
Weatherometer, 3000 hrs. exposure	Acceptable (3)	Acceptable (3)	ASTM D 822, G 155 Weatherometer
Dew Cycle Weatherometer, 500 hrs. exposure	Acceptable (3)	Acceptable (3)	ASTM D 3361
Humidity, 100% relative humidity @ 95°F.	Passes 3000 hrs. (4)	Passes 1500 hrs. (4)	ASTM D 2247
Salt Spray, 5 % salt fog @ 95°F.	Passes 3000 hrs. (5)	Passes 1000 hrs. (5)	ASTM B 117 (NCCA 111-2)
Cyclic Salt Fog/UV Exposure Test	Passes 2016 hrs. (6)	Passes 2016 hrs. (6)	ASTM D 5894

Notes:

- (1) Flexible to point of metal rupture without rupture of coating.
- (2) No loss of adhesion between coating and substrate to point of metal rupture with 1/16" cross-hatch scribe pattern through coating to bare metal.
- (3) No objectionable chalking, color change or blistering.
- (4) No No. 8 size blisters.

- (5) Aluminum: none or few No. 8 size blisters, not more than 1/16" avg. creep or tape off scribe.
Metallic coated steel: none or few No. 8 size blisters, not more than 1/8" avg. creep or tape off scribe.
- (6) No blistering and no rating less than 5 per ASTM D 714; no rusting per ASTM D 610; Rating of 6, less than 1.5 mm creepage from scribe per ASTM D 1654.

Limitations:

All BRIGHTSMITH materials are pre-finished and, therefore, care should be taken during fabrication and installation of materials. Fabrication and installation of materials should conform to standards established by the architectural sheet metal community. During the fabrication and/or forming of the materials, proper bend radii must be used. For damage other than minor scratches, such as dents, deep abrasions, or scratches which have damaged base materials, the actual unit should be replaced. All metal shavings, chips, and dust must be removed from material immediately.