



AAMA 2605 Finishes Comparison
70% PVDF (Polyvinylidene Fluoride) Liquid Coating
vs.
100% FEVE (Fluoroethylene Vinyl Ether) Powder Coating



The tables below show the performance characteristics of both 70% PVDF (Kynar® resin) and powder coatings based upon FEVE (Fluoroethylene Vinyl Ether). The main difference of these two coatings, besides their state of phase, is that the liquid coating is a thermoplastic and the powder coating is a thermoset. Thermoplastics do not undergo a permanent, one-way, infusible reaction as do thermosets. By virtue of this, thermosets are typically much harder and more scratch resistant, resulting in a tougher film versus their thermoplastic counterparts. Both varieties display excellent weathering and corrosion resistance. PVDF (70% Kynar® resin) liquid coatings are more recognized by their commercial names such as Kynar 500®, Fluoropon®, Duranar®, etc. Gordon Inc.'s AAMA 2605 powder coatings are based on FEVE technology which is an ultra-high-performance fluoropolymer molecule that is chemically crosslinked, surpassing the requirements of AAMA 2605.

Physical Properties of Coatings			
Property	Test Method	70% PVDF Liquid Coating	100% FEVE Powder Coating
Textures	N/A	No	Yes
Gloss Range (at 60°)	ASTM D523	20-35	20-65
Color Range ¹	N/A	Wide range of solids & metallics	Wide range of solids & metallics
Smoothness (PCI Scale) ²	PCI Tech Brief #20	6-8	6-8
Pretreatment, typ. ³	N/A	Tri/Hex Valent Chrome	Chrome-free dry-in-place
Impact Resistance (deformation)	ASTM D2794	3.0 mm	3.0 mm
Pencil Hardness ⁴	ASTM D3363	F	4H
Taber Abrasion (Wear Index) ⁵	ASTM D4060	140	100
Adhesion	ASTM D3359	5B	5B
100 Double Rubs MEK	PCI Method #8	PASS	PASS
Mandrel Bend	ASTM D522	¼"	¼"
Film Thickness	ASTM D7091	1.2 min	2.0 min
South Florida UV Resistance	Per AAMA 2604-17a	Up to 20 years, Gloss retention: 50%+, Color Retention: ΔE <5.0	Up to 20 years, Gloss retention: 50%+, Color Retention: ΔE <5.0
Salt Spray Resistance (ASTM B117)	ASTM B117	3000 hrs.	3000 hrs.
Cyclic Corrosion	ASTM G-85	2000 hrs.	2000 hrs.
Humidity Resistance	ASTM D2247	4000 hrs.	4000 hrs.

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