



LUMIFLON®

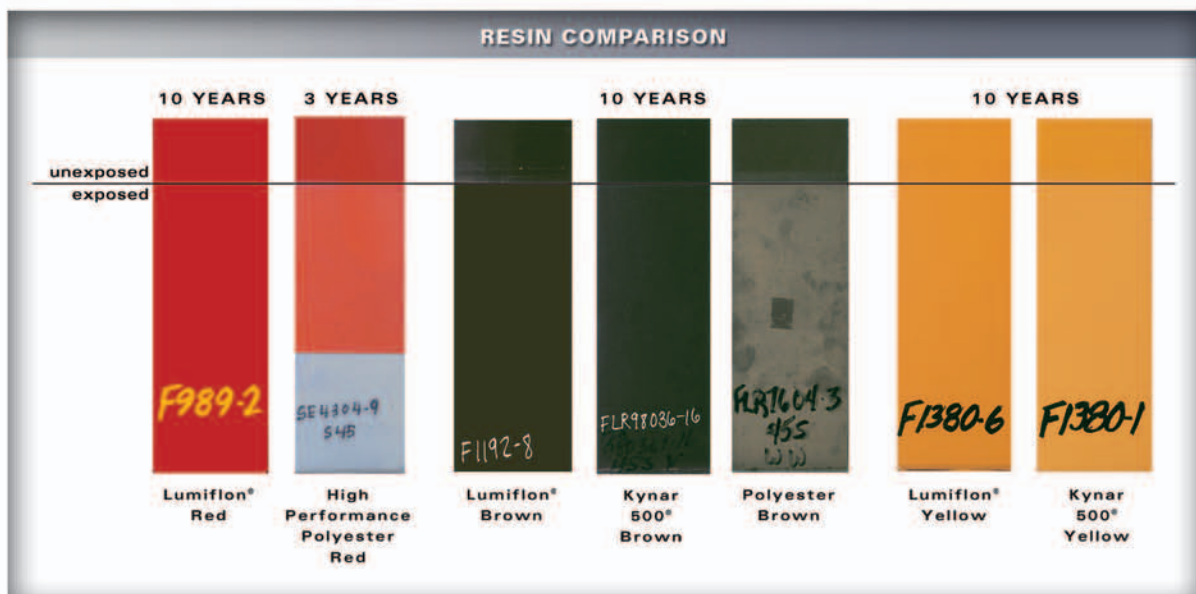
THE HIGHER STANDARD

ALPOLIC®

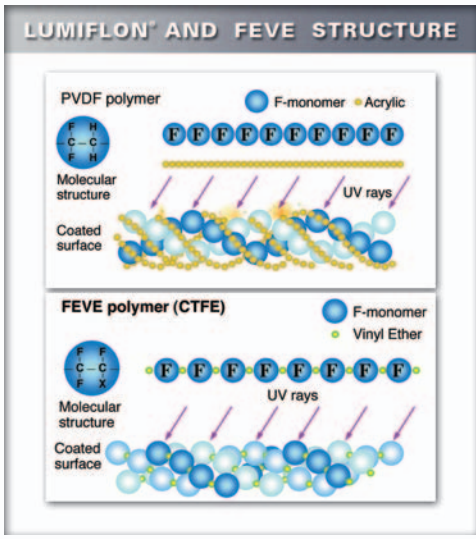
INNOVATION • STYLE • PERFORMANCE

With The Right Ingredients, You Always Get A Brighter Finish.

WHEN ALPOLIC® WANTED TO ENSURE A BRIGHT, DURABLE FINISH FOR ITS ARCHITECTURAL ALUMINUM COMPOSITE MATERIAL (ACM) PANELS, IT FIRST LOOKED AT FLUOROPOLYMER PAINTS LIKE KYNAR®, THE STANDARD FOR ARCHITECTURAL FINISHES. KYNAR® LOOKED ATTRACTIVE, COVERED WELL AND LASTED A LONG TIME. HOWEVER, ALPOLIC®'S EXPERTS FOUND THAT KYNAR® HAD DEFINABLE LIMITATIONS. THAT'S WHEN THEY TURNED TO LUMIFLON®, THE SOLVENT-SOLUBLE FLUOROCARBON RESIN DEVELOPED BY ASAHI GLASS IN 1982. LUMIFLON® NOT ONLY SURPASSED THE PERFORMANCE STANDARDS OF KYNAR®, BUT IT ALSO OFFERED FINISHES THAT KYNAR® COULD NOT MATCH. WHEN THEY SAW THE RESULTS, OUR EXPERTS KNEW THEY HAD FOUND THE RIGHT INGREDIENT FOR OUR PRODUCTS. TODAY, ALPOLIC® CONTINUES TO BE THE LEADING INNOVATOR IN ARCHITECTURAL APPLICATIONS, USING LUMIFLON® IN ALL OF ITS PPG/CORAFLO®N®, MEGAFLO®N®, BONFLO®N® (ASAHI) AND VALFLO®N® (VALSPAR) PAINT FINISHES.



Lumiflon®'s High Gloss Is The Clear



LUMIFLON® Outperforms KYNAR®
At Every Turn

ALPOLIC®'s experts soon discovered that LUMIFLON® coatings can be cured at room temperature, making them highly suitable for field application. They exhibit superior durability, weatherability and longevity to other coatings because of the strength of their Carbon

Flourine (C-F) bonds, effectively extending the life of the coatings. At the same time, they also prevent corrosion from water, oxygen and even chloride ions, ensuring a longer life on a variety of applications and far less need for repainting.

LUMIFLON® Outdoes KYNAR®'s Range
Of Colors And Finishes

With LUMIFLON®, ALPOLIC® can offer you a far wider variety of colors and finishes than any other coatings in the industry. As the next generation thermoset solution fluoropolymer (FEVE), LUMIFLON® is crystal clear, encouraging the development of brighter, cleaner, more distinctively vivid colors and a gloss range that's more than twice the industry standard for fluoropolymer coatings. KYNAR®'s PVDF finishes are cloudy and murky in appearance and restrict their range of colors and gloss levels. LUMIFLON®

Higher Standard Clear Choice



enables ALPOLIC® to overcome these limitations and provides you with the most varied, most unique and most durable finishes on a wider range of applications worldwide, including stone, prismatic, and pearlescent finishes.

LUMIFLON® Outlasts Other Finishes By Years

Using LUMIFLON®, ALPOLIC® provides the industry's top performance finish in the field. LUMIFLON® not only enables our ACM panels to look better when they are brand new, but it also maintains that same great look for years to come. Other finishes' UV coatings begin breaking down years before coatings with LUMIFLON® do. With its superior gloss retention, ALPOLIC®'s LUMIFLON® finishes will keep your buildings looking new even after decades.

When It Comes To Higher Standards, Your Choice Is Clear

Superior durability and weatherability. More brilliant, longer lasting colors and a far wider gloss range. And the toughest, most durable finish ever with the industry's leading longevity record. Using LUMIFLON® resins, ALPOLIC® offers you more choices and longer lasting finishes than any other manufacturer, making our coatings the finest, most versatile line of fluoropolymer finishes available to architects today. For more information on available colors, finishes and specifications, as well as samples and a list of authorized ALPOLIC® fabricators, please call us at 1-800-422-7270. Or visit www.alpolic-usa.com. And set higher standards for yourself with the clear choice in finishes.

ALPOLIC®

INNOVATION • STYLE • PERFORMANCE

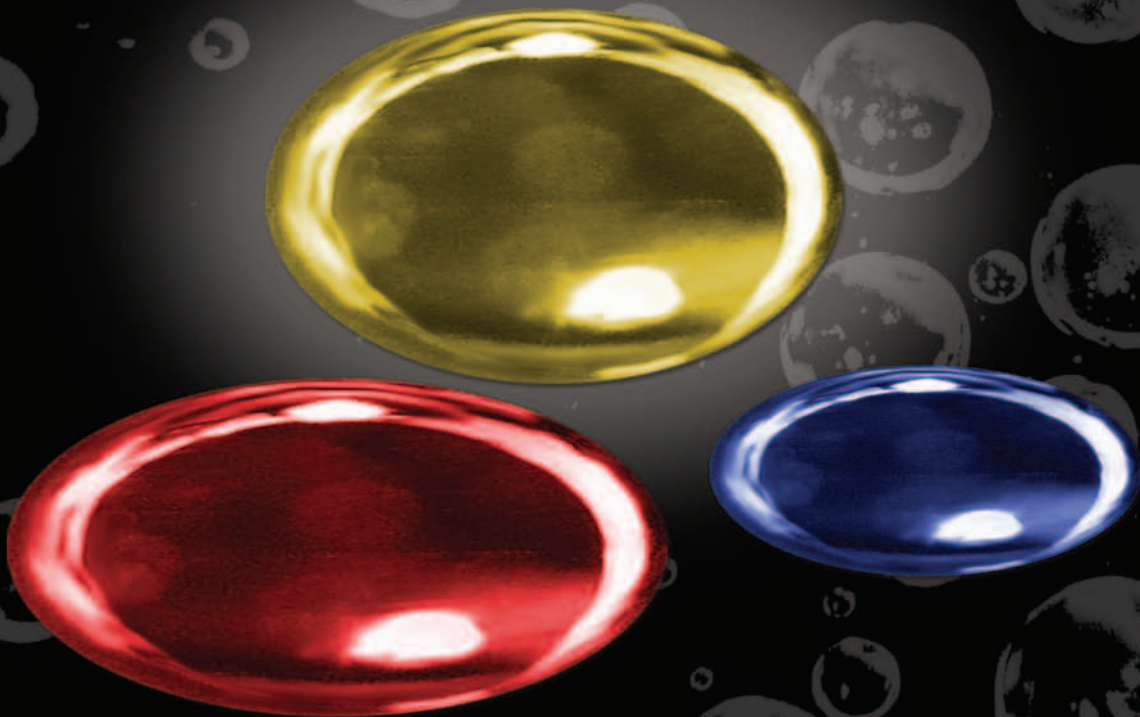
TREATMENTS AND COATINGS FOR METAL SUBSTRATES

COMPARATIVE PROPERTIES AND PERFORMANCE CHART-COIL COATING TOPCOATS

GENERIC COATING TYPE (TOPCOAT ONLY)									
Physical and Resistance Properties	ASTM Method	Lumiflon (FEVE)	Solution Acrylic	Polyester		Silicone Polyester	Poly(vinylidene) Fluoride (PVDF)	Acrylic Latex	Polyurethane
				Interior use Only	Exterior Use				
Impact Resistance	D2794	4	2	3-5	3	4	4	3	4
Mar Resistance	D3363, D2197	4	4	4	4	3	3	3	3
Metal Marking Resistance	No Method	4	4	4	4	3	3	4	3
Resistance to Pressure Mottling in Coil	D3003	4	4	4	4	3	3	3	3
Solvent (MEK) Resistance	D5402	4	4	3-5	5	3	3	4	3
Grease & Oil Resistance	D5402, D1308	4	3	3-5	4	4	4	3	3
Stain Resistance	No Method	3-4	4	3-5	4	4	4	3	3
Resistance to Acidic/ Caustic Conditions	D2248, D1308	4	3	3-4	3	4	4	4	3
Resistance to Water Immersion	D870	4	4	4	4	4	4	2	3
Humidity Resistance	D1735, D2247, D4585, G60	4	4	4	4	4	4	2	4
Abrasion Resistance	D4060, D968	4	3	3-5	3	4	4	3	3
Resistance to Industrial Pollution	D1308, G87	4	3	3	3	4	4	3	3
Corrosion Resistance (Salt Spray)	B117, G85	3	3	4	4	3	3	3	4
Flexibility/Drawability	D2794, D3281, D4145, D522, D4146	4	2	3-5	3	4	4	3	4
Dry Heat Resistance	No Method	4	3	4	4	4	4	4	5


Weathering Properties	ASTM Method	Lumiflon (FEVE)	Solution Acrylic	Polyester		Silicone Polyester	Poly(vinylidene) Fluoride (PVDF)	Acrylic Latex	Polyurethane
				Interior use Only	Exterior Use				
Gloss Retention 5 yrs. Florida, 45° South	D523	5			2-3		5		
Chalk 5 yrs Florida, 45° South	D4214, D659	5			2-3		5		
Color Retention 5 yrs. Florida, 45° South	D822, G23, G26, G53	5			2-3		5		

5=Excellent, 4=Very Good, 3=Good, 2=Fair, 1=Poor



For additional information, samples or
a list of ALPOLIC® fabricators, please call
1-800-422-7270 or visit www.alpolic-usa.com

U . S . H E A D Q U A R T E R S

 Mitsubishi Chemical FP America, Inc.

Composite Materials Division

401 Volvo Parkway, Chesapeake, VA 23320

Telephone: 800-422-7270, Facsimile: 757-436-1896

www.alpolic-usa.com e-mail: info@alpolic.com

©20064 Mitsubishi Chemical FP America, Inc. All rights reserved.

ALPOLIC® is a registered trademark of Mitsubishi Chemical Corporation.

PPG/CORAFLO® is a registered trademark of PPG Industries.

LUMIFLO® is a registered trademark of Asahi Glass Company.

KYNAR® is a registered trademark of Autofina Chemicals, Inc.

VALFLO® is a registered trademark of Valspar.

ALPOLIC®

INNOVATION • STYLE • PERFORMANCE