

General remark for the figures below: “LUMIFLON” is the FEVE-based paint

Figure 1: Results from Accelerated weathering test.

Influence of solar radiation energy and exposure time on gloss retention of different materials.

Accelerated weathering test 1

Solar radiation energy (M Langley)				Gloss retention	
	0	0.5	1	1.5	2
LUMIFLON™ (for ALPOLIC™)	100%	95%	90%	85%	83%
PVDF 70/30	100%	85%	70%	60%	58%
Acrylic urethane	100%	70%	15%	–	–
Baked acryl	100%	18%	–	–	–

Natural light condensing type: Emmaqua test in Arizona, USA Irradiation of 2 million Langley (amount of lights is equivalent to irradiation for 20 years)

Accelerated weathering test 2

Exposure time (hours)				Gloss retention	
	0	2,000	4,000	6,000	8,000
LUMIFLON™ (for ALPOLIC™)	100%	95%	95%	83%	82%
PVDF 70/30	100%	85%	70%	60%	58%
Acrylic urethane	100%	70%	15%	–	–
Baked acryl	100%	70%	15%	–	–
Polyester	100%	18%	–	–	–

Sunshine Weather-O-Meter (SWOM)

Figure 2: General comparison between conventional paints and LUMIFLON in regard to weatherability, gloss, repairability, etc.

General comparison between conventional paints and LUMIFLON™

	LUMIFLON™ for ALPOLIC™	PVDF 70/30	Polyester
Weatherability	20 years	20 years	3 – 5 years
Gloss	15 – 80%	25 – 35%	25 – 90%
Color Range	Wider	Limited	Wider
Repair Coating	Can be done	Difficult	Can be done
Pencil Hardness	H – 2H	F	2H
Bendability	2T	1T	2T

Figure 3: Exposure Test. Comparison of the color change, when exposed to sunlight

South Florida exposure test panels

