

Lumiflon products

solvent grades

LUMIFLON solvent grade typical properties

grade	LF-200	LF-552	LF-600X	LF-810	LF-810	LF-910LM
characteristics	standard	improved flexibility	improved flexibility	single component coatings	single component coatings	lower VOC
application type	field application	factory coil coating	factory coil coating field application	field application aerosols	field or factory application aerosols	field application
markets	architecture, industrial maintenance, transportation, aerospace, alternative energy					
substrates	metal-steel & aluminum, plastic, fiberglass, concrete					
molecular weight	moderate	high	high	high	high	low
solid resin, wt%	60	40	50	45	55	66
Tg, °C/F	35/95	20/68	20/68	45/113	45/113	37/99
specific gravity (as varnish), 25° C	1.12	1.06	1.08	0.98	1.04	1.16
OH value, mg KOH/g-polymer	52	52	57	4	4	100
acid value, mg KOH/g-polymer	0	5	0	0.3	0	0
viscosity, stokes, cm ² /s, 25° C	20	4	9	18	19	5
solvent	xylene	aromatic hydrocarbon solvent/cyclohexanone	xylene	mineral spirits	xylene	xylene

LUMIFLON aerospace resins typical properties

grade	LF-9716	LF-9721	LF-910LM
markets	aerospace, other military		
substrates	aluminum, composites, steel		
solid resin, wt%	70	70	66
specific gravity, 25° C	1.25	1.26	1.16
OH value, mg KOH/g-polymer	170	160	100
gardner color	<1	<1	<1
viscosity, stokes, cm ² /s, 25° C	35	30	5
solvent	ethyl 3-ethoxy propionate	ethyl 3-ethoxy propionate	xylene

solid grades

LUMIFLON solid grade typical properties

grade	LF-200F	LF-916F
markets	architecture, industrial maintenance, transportation, aerospace, alternative energy	
substrates	metal-steel & aluminum, plastic, fiberglass, concrete	
appearance	pale yellow flake	pale yellow flake
solid resin, wt%	>98	>99
OH value, mg KOH/g-resin	49	100
Tg, °C/F	35/95	34/93
Density, glcc, 25° C	1.42	1.39
softening point, °C	119	117

LUMIFLON *products*

water emulsion grades

LUMIFLON emulsion grade typical properties

grade	FE-4300	FE-4400
characteristics	low OH value/low Tg one component	high OH value/high Tg one or two component
markets	architecture, industrial maintenance, transportation	
substrates	metal-steel & aluminum, plastic, fiberglass, concrete	
solid resin, wt%	50	50
specific gravity, 25° C	1.13	1.16
OH value, mg KOH/g-polymer	10	49
pH	7-9	7-9
average particle diameter, µm	0.1-0.2	0.1-0.2
ionic character	Anionic	Anionic
minimum film forming temperature, °C/F	30/86	55/131

water dispersion grade

LUMIFLON dispersion grade typical properties

grade	FD-1000
markets	architecture, industrial maintenance, transportation, aerospace
substrates	metal-steel & aluminum, plastic, fiberglass, concrete
appearance	milky white liquid
solid resin, wt%	40
specific gravity, 25° C	1.13
OH value, mg KOH/g-polymer	85
acid value, mg KOH/g-polymer	15
pH	7-9
average particle diameter, µm	0.05-0.15
ionic character	Anionic
minimum film forming temperature, °C/F	29/84

powder coating grades

LUMIFLON powder coating grade typical properties

grade	LF-710F
markets	architecture, transportation
substrates	metal-steel & aluminum
solid resin, wt%	>99
Tg, °C/F	51/125
OH value, mg KOH/g-polymer	46
softening point, °C/F	90/194
solvent	none