



LUMIFLON LF910LM

FEVE Resin Polyol

PRODUCT DESCRIPTION

LUMIFLON® LF910LM is a fluoroethylene vinyl ether solventborne polyol used in applications requiring outstanding exterior durability and excellent chemical resistance. It has low molecular weight coupled with a high hydroxyl value and is formulated into 2K crosslinkable coatings. Low molecular weight also allows for easy blending with other polyols. Markets include heavy duty industrial coatings, architectural coatings, aerospace coatings, automotive coatings, and coatings for concrete.

CHARACTERISTICS

- Outstanding weathering, chemical resistance, and water resistance
- Cures with heat or at ambient conditions for factory or field applications
- Applications include general industrial, heavy duty, and architectural coatings

TYPICAL PROPERTIES

Property	LUMIFLON LF910LM
Appearance	Clear Liquid
Weight Solids, %	66
Hydroxyl Value, mgKOH/g polymer	100
Hydroxyl Equivalent Weight, on solids/as supplied	561/850
Weight/Gallon, lb/gal	9.67
Viscosity, cP at 25°C	500
Glass Transition Temperature, °C	37

STARTING POINT FORMULATIONS

2K Clear Topcoat with LUMIFLON LF910LM

Cure Conditions: 1 week at 23°C

Substrate: Chromated Aluminum Panels, 8mm

PART A

Trade Name	Type	Parts by Weight
LUMIFLON LF910LM	Resin	111.0
n-Butyl Acetate	Solvent	8.5
Dibutyltin Dilaurate in Xylene (0.01%)	Catalyst	5.7
Tinuvin® 292 (BASF)	HALS	2.2
Tinuvin® 400 (BASF)	UVA	3.4
Total		130.8

2K PAINT FORMULATION

Above Formulation	Part A	
Desmodur® N3300A (Covestro)	Poly-isocyanate	26.5
Total		157.3

Property	Result
Solids Content, wt%	68.9
Volume Solids, %	59.0
Weight/Gallon, lb/gal	9.52
Viscosity Zahn #2, s	35
VOC	
g/L	360
lb/gal	3.0

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STARTING POINT FORMULATIONS

2K White Pigmented Topcoat with LF910LM

Cure Conditions: 1 week at 23°C

Substrate: Chromated Aluminum Panels, 8mm

PART A: PIGMENT PASTE

Trade Name	Type	Parts by Weight
LUMIFLON LF910LM	Resin	35.0
Byk® 180 (Byk)	Wetting Agent	0.7
Ti-Pure™ R-960 (Chemours)	Pigment	35.0
Xylene	Solvent	30.0
Total		100.7

PART A: LET DOWN

Pigment Paste	Paste	100.7
LUMIFLON LF910LM	Resin	88.3
Dibutyltin Dilaurate in Xylene (0.01%)	Catalyst	3.8
Tinuvin® 292 (BASF)	HALS	2.2
Total		195.0

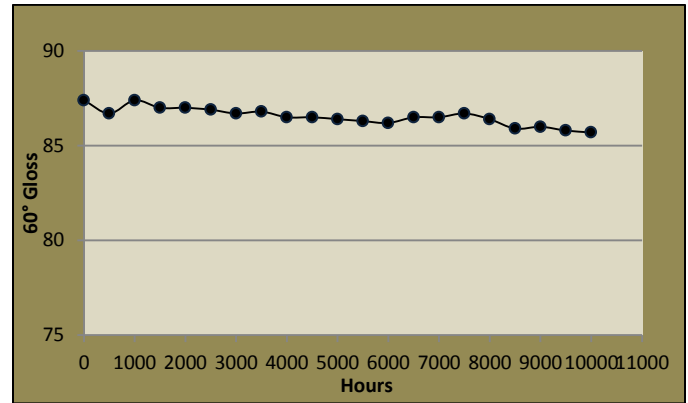
2K PAINT FORMULATION

Above Formulation	Part A	195.0
Desmodur® N3300A (Covestro)	Poly-isocyanate	29.7
Total		224.7

Property	Result	Property	Result
Solids Content, wt %	65.6	Crosscut Adhesion (D3359)	5B
PVC, %	9.6	Pencil Hardness, Gouge (D3363)	4H
Weight/Gallon, lb/gal	10.34	Flexibility, Mandrel Bend- Paint Fracture (D4145)	3T-4T
Gloss, 20/60 (ASTM D523)	76/89	Flexibility, Cupping Test-Cracking (ISO 1520)	>7mm
VOC g/L	427	Impact Resistance Intrusion/Extrusion D=5in, 0.5kg (D2794)	>0.5m/ >0.5m
lb/gal	3.6	H ₂ O Resistance, 40°C, 24h (ISO 2812)	3-5B
Viscosity Zahn #2, s	56	Adhesion (D3359)	3B
		Blistering (D714)	None

WEATHERING DATA

QUV-A Accelerated Weathering of a Clear LF910LM Topcoat over a White PU Basecoat



STORAGE AND HANDLING

Keep away from sunlight and rain. Floor surface of storage place should be made of non-permeable materials to the ground such as concrete. Store in a cool, dry, well-ventilated location.

Wear appropriate safety glasses and gloves to avoid contact with eyes and skins. Hands should be washed thoroughly after handling. Suitable ventilation should be used during application.

PACKAGING

18kg pail
200kg drum

For more information and samples contact

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