



LUMIFLON LF200F

FEVE Resin Polyol

PRODUCT DESCRIPTION

LUMIFLON® LF200F is a fluoroethylene vinyl ether polyol used in applications requiring outstanding exterior durability and excellent chemical resistance. It is formulated into low VOC, 2K crosslinkable coatings. It has both moderate molecular weight and hydroxyl value making it a versatile polyol for various applications. 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 under ambient conditions for field applications
- Applications include low VOC general industrial, heavy duty, and architectural coatings

TYPICAL PROPERTIES

Property	LUMIFLON LF200F
Appearance	Flake
Weight Solids, %	>98
Hydroxyl Value, mgKOH/g polymer	49
Hydroxyl Equivalent Weight	1145
Weight/Gallon, lb/gal	11.8
Softening Point, °C	119
Glass Transition Temperature, °C	35

STARTING POINT FORMULATIONS

Low VOC 2K White Topcoat with LF200F

LF200F SOLUTION

Trade Name	Type	Parts by Weight
LUMIFLON LF200F	Flake Resin	50
t-Butyl Acetate	Solvent	50
Total		100.0

Part A: Pigment Paste

Trade Name	Type	Parts by Weight
LUMIFLON LF200F Solution	Resin	20
Byk® 180 (Byk)	Dispersant	0.6
Ti-Pure™ R-960 (Chemours)	Pigment	40
t-Butyl Acetate	Solvent	40
Total		100.6

Part A: Let Down

Trade Name	Type	Parts by Weight
LUMIFLON LF200F Solution	Resin	37.7
Pigment Paste	Pigment	62.1
0.1% Dibutyltin Dilaurate (Xylene)	Catalyst	0.2
Total		100.0

2K PAINT FORMULATION

Above Formulation	Part A	100
Desmodur® N3300A (Covestro)	Poly-isocyanate	4.7
Total		104.7

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Cure Conditions: 1 hr at 80°C

Substrate: Chromated Aluminum Panels, 8mm

Property	Result
Solids Content, wt%	52
Volume Solids, %	33
Weight/Gallon, lb/gal	10.1
VOC, g/L	24
Gloss, 20°/60°	75/85
Pencil Hardness	F
Mandrel Bend, fracture (D 4145)	2T-3T
Impact Resistance, D=0.5in, 0.5kg Intrusion/Extrusion (D2794)	>1.0m, >1.0m

SOLUBILITY OF LF200F (ASTM D4287)

Solvent	Solids, wt. %	Viscosity, cPs
Xylene	49.5	630
	61.9	6284
	70.6	>20,000
t- Butyl Acetate	50.2	869
	75.2	29,256
Oxsol® 100	48.6	6632
	55.6	25,000
Acetone	50.0	250
	60.0	975
Dimethyl Carbonate	50.0	825
Methyl Ethyl Ketone (MEK)	50.8	263
	68.1	4714
Methyl Amyl Ketone (MAK) or 2- Heptanone	50.5	470
	66.9	6876
Methyl Acetate	51.8	333
	61.6	1645
	66.3	4186
n-Butyl Acetate	49.9	496
	59.2	2397
PM Acetate or 1-Methoxy- 2-Propyl Acetate	50.9	1573
	64.2	20,747
Ethyl 3-Ethoxy Propionate (EEP)	50.7	1941
	64.0	16,729

STORAGE AND HANDLING

Keep away from sunlight and rain. 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

20kg Carton

For more information and samples contact

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