



LUMIFLON LF200

FEVE Solventborne Resin Polyol

PRODUCT DESCRIPTION

LUMIFLON® LF200 is a solventborne fluoroethylene vinyl ether resin designed for weather-resistant coatings. LUMIFLON LF-200 has hydroxyl functionality and can be crosslinked with polyisocyanates. Coatings based on LF200 exhibit high gloss and excellent durability. LF200 is a general purpose resin, used for heavy duty industrial coatings, architectural coatings, aerospace coatings, automotive coatings, and coatings for alternative energy applications. LF200 is also available in a flake version called LF200F. This flake grade can be used with exempt solvents for low VOC formulations.

CHARACTERISTICS

- Outstanding weathering, chemical resistance, and water resistance
- Cures under ambient conditions for field applications
- Applications include general industrial, heavy duty, and architectural coatings

TYPICAL PROPERTIES

Property	LUMIFLON LF200
Appearance	Clear Liquid
Weight Solids, %	60
Carrier Solvent	Xylene
Hydroxyl Value, mgKOH/g polymer	52
Hydroxyl Equivalent Weight, on solids/as supplied	1079/1798
Weight/Gallon, lb/gal	9.35
Viscosity, cP at 25°C	2240
Glass Transition Temperature, °C	35

STARTING POINT FORMULATIONS

2K Clear Topcoat with LUMIFLON LF200

Cure Conditions: 1 week at 23°C

Substrate: Chromated Aluminum Panels, 8mm

PART A

Trade Name	Type	Parts by Weight
LUMIFLON LF200	Resin	111.5
n-Butyl Acetate	Solvent	29.8
Dibutyltin Dilaurate in Xylene (0.1%)	Catalyst	0.4
Tinuvin® 292 (BASF)	HALS	1.6
Tinuvin® 400 (BASF)	UVA	2.4
Total		145.2

2K PAINT FORMULATION

Above Formulation	Part A	145.2
Desmodur® N3300A (Covestro)	Poly-isocyanate	12.6
Total		157.8

Property	Result
Solids Content, wt%	52.5
Volume Solids, %	42.1
Weight/Gallon, lb/gal	8.9
NCO/OH Index	1.06
VOC	
g/L	503
lb/gal	4.2

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STARTING POINT FORMULATIONS

2K White Pigmented Topcoat with LUMIFLON LF200

Cure Conditions: 1 week at 23°C

Substrate: Chromated Aluminum Panels, 8mm

PART A: PIGMENT PASTE

Trade Name	Type	Parts by Weight
LUMIFLON LF200	Resin	12.2
n-Butyl Acetate	Solvent	10.5
Disperbyk® 180 (Byk)	Dispersant	0.5
Ti-Pure™ R-960 (Chemours)	Pigment	22.1
Total		45.3

PART A: LET DOWN

Pigment Paste	Type	Parts by Weight
LUMIFLON LF200	Resin	40.8
n-Butyl Acetate	Solvent	5.7
Dibutyltin Dilaurate in Xylene (0.1%)	Catalyst	0.2
Tinuvin 292 (BASF)	HALS	0.8
Tinuvin 400 (BASF)	UVA	1.1
Total		94.0

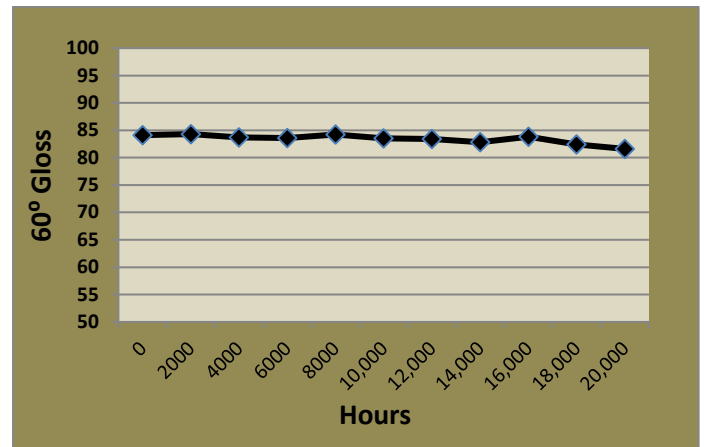
2K PAINT FORMULATION

Above Formulation	Part A	Parts by Weight
Desmodur® N3300A (Covestro)	Poly-isocyanate	6.0
Total		100

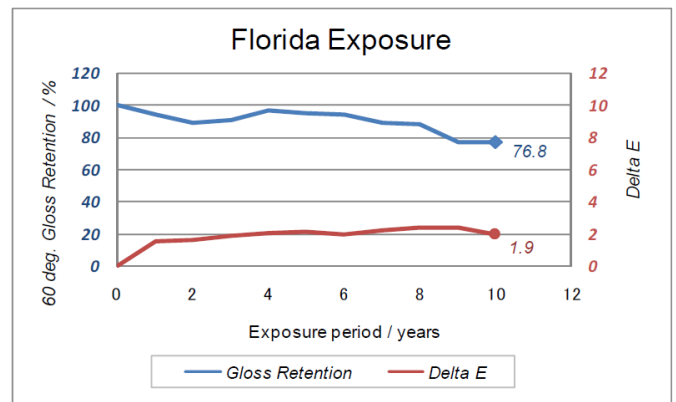
Property	Result
Solids Content, wt%	62.2
Volume Solids, %	45.4
Weight/Gallon, lb/gal	10.5
NCO/OH Index	1.05
PVC	15.4
VOC, g/L	477

WEATHERING DATA

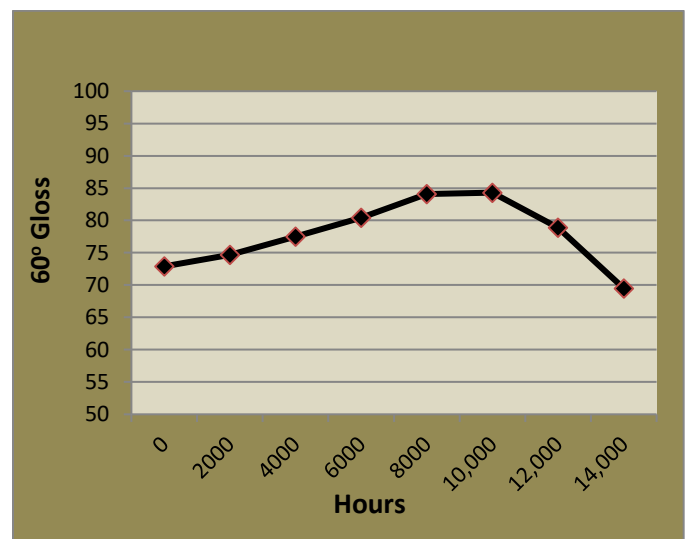
QUV-A Accelerated Weathering of a Clear LF200 Formulation



Ten (10) Years South Florida Weathering of a Clear LF200 Formulation



QUV-A Accelerated Weathering of a High Gloss White LF200 Formulation





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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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Lumiflon LF200 Product Information.DOC 08/2015

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