



LUMIFLON LF-200

LUMIFLON LF-200 is a solvent soluble fluoropolymer designed for weather-resistant coatings.

LUMIFLON LF-200 has hydroxyl functionality and can be crosslinked with polyisocyanates, giving coatings with high gloss and excellent durability. LF-200 is a general purpose resin, used for industrial, heavy duty, and architectural coatings.

LUMIFLON LF-200 Characteristics

- * Standard grade
- * Outstanding weathering and chemical resistance
- * Suitable for use in ambient cure and high temperature cure coatings
- * Applications include general industrial, heavy duty, and architectural coatings

Typical Physical Properties

Resin Properties

Tg (deg.C)	35
Hydroxyl value (mgKOH/g-polymer)	52
Acid value (mgKOH/g-polymer)	0

Varnish Properties

Solid content	60 (%)
Solvent	Xylene
Specific gravity (at 25deg.C)	1.12
Viscosity (*10 ⁻⁴ m ² /s)	20

Standard Formulation for Two Component Coating



Pigment Paste		(Parts by Weight)
LUMIFLON Resin	LF-200	16.7
Pigment	Ti-Pure R-960*	40
Solvent	Xylene	43.3
Total		100.0

* DuPont

Let Down		(Parts by Weight)
Pigment Paste	As Above	37.0
LUMIFLON Resin	LF-200	51.0
Solvent	Xylene	10.0
Catalyst	1/10,000 DBTDL (Xylene)	2.0
Total		100.0

Paint Formulation		
Main Pack	As Above	100
Hardener	Desmodur N3300**	6.1

** Bayer

Characteristics	
Solid content	52.1 (%)
PVC	11.0 (%)
Specific Gravity (at 25deg.	1.16
Viscosity (Ford Cup No.4)	43 (sec)
VOC	556 (g / L)
	4.6 (lbs/gal)

Coating Properties

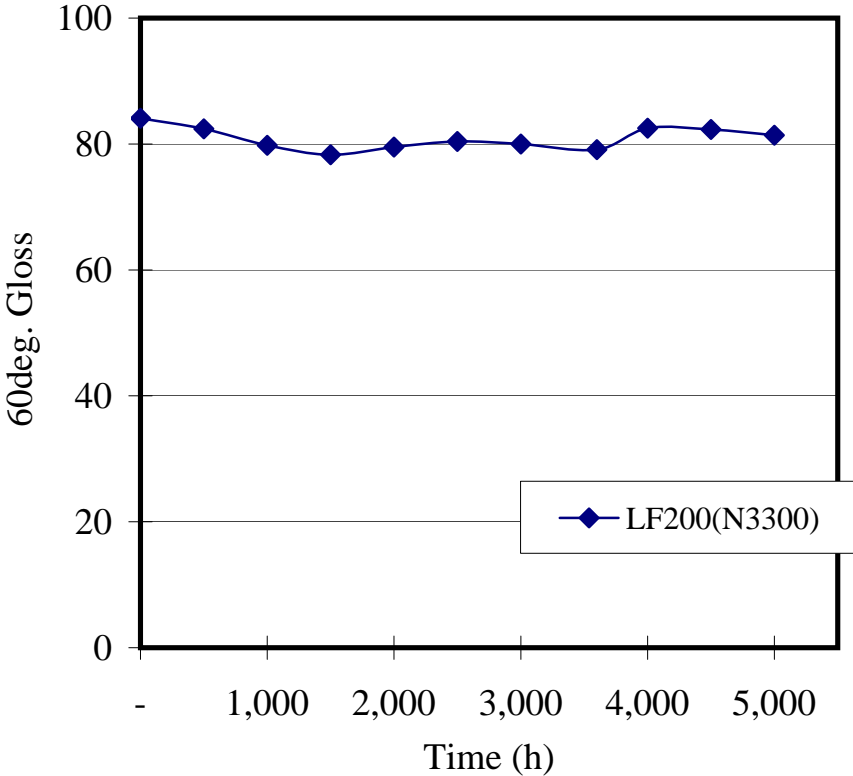


Cure Conditions: 1 week at 23 deg. C

Substrate: Aluminum Panels prepared by Acid-chromating (8mm)

Film Thickness	30 - 40 micrometer
Gloss	
ISO 2813	70 / 83 (20deg. / 60deg.)
Hardness (Pencil Test)	
ASTM D3363	3H (Gouge Hardness)
Flexibility	
ASTM D4145	3T Bend (Paint fracture)
Flexibility (Cupping Test)	
ISO 1520	> 7mm (Cracking)
Resistance to Rapid Deformation (Impact)	
ASTM D2794 (Diameter = 12.7mm (0.5 in))	Intrusion; 0.5kg, > 0.5m Extrusion; 0.5kg, > 0.5m
Adhesion (Cross-cut Tape Test)	
ASTM D3359	5B
Water Resistance (Water Immersion Method)	
ISO 2812 (40deg.C, 24h)	
(1) Adhesion	
ASTM D3359	5B / 5B - 4B (Wet / Dry)
(2) Blistering	
ASTM D714, ISO 4628	No blistering

Weathering of LUMIFLON LF-200 (QUV-B, 5,000 hours)



UV / Condensation Cabinet Cycle :

8 hours UV at 70 deg.C and 4 hours Condensation at 50 deg.C

The information given in this Product Data Sheet is for information purposes only. It is given in good faith and based on the best knowledge and experience of the company. This product should be used only in applications for which it was intended. This product is not designed for special applications such as pharmaceutical or other medical use. The company makes no warranties and undertakes no responsibilities regarding this product except as stated in contract documents for its supply.