

LUMIFLON LF552

FEVE Resin Polyols



PRODUCT DESCRIPTION

LUMIFLON® LF552 is a fluoroethylene vinyl ether polyol with moderate molecular weight and moderate hydroxyl functionality. It is used in coil-coating applications requiring outstanding exterior durability. LUMIFLON LF552 provides coil coatings with a crisp, clear finish in a range of gloss levels as well as a broad range of colors. LUMIFLON LF552 is supplied in a blend of cyclohexanone and Aromatic 150 solvents.

CHARACTERISTICS

- Outstanding weathering resistance
- Coatings with LF552 can meet AAMA 2605
- Range of gloss levels for ultimate design freedom
- Ideal properties for coil coatings: flexibility and good adhesion to metal and/or primers

TYPICAL PROPERTIES

Property	LF552
Weight Solids, %	40
Carrier Solvent	Cyclohexanone/ Aromatic 150
Viscosity, cP at 25°C	400
Hydroxyl Value, mgKOH/g polymer	52
Acid Value, mgKOH/g polymer	2
Tg, 25°C	20C/68F
Specific Gravity, 25°C	1.06

STARTING POINT FORMULATIONS

White Coating with LUMIFLON LF552

Cure Conditions: 1 hr flash at 50°C then bake at 160°C for 30 minutes
Substrate: Chromated Aluminum Panels, 8mm

PIGMENT PASTE

Trade Name	Type	Parts by Weight
LUMIFLON LF552	Resin	20.0
Ti-Pure™ R960 (Chemours)	Pigment	30.0
Cyclohexanone	Solvent	10.0
Aromatic 150	Solvent	40.0
Total		100.0

PAINT FORMULATION

LUMIFLON LF552	Resin	50.6
Pigment Paste	Pigment	33.1
Cyclohexanone	Solvent	3.2
Aromatic 150	Solvent	3.2
0.01% Dibutyltin Dilaurate, DBTDL (in Aromatic 150)	Catalyst	2.0
Desmodur® BL-3175 (Covestro)	Blocked Crosslinker	8.0
Total		100.1

Formula Property	Result
Solids Content, wt%	38.8
PVC	11.1
Weight/Gallon, lb/gal	9.1
VOC, g/L	667

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Coating Physical Property	Result
Gloss, 20/60 (ISO 2813)	57/82
Pencil Hardness (ASTM D 3363)	3H
Mandrel Bend, to fracture (ASTM D 4145)	2T
Cupping Test, to cracking (ISO 1520)	>7 mm
Impact Resistance, D=0.5in (ASTM D 2794)	
Intrusion, 0.5kg	>0.5 m
Extrusion, 0.5kg	>0.5 m
Adhesion (ASTM D 3359)	5B
Water Resistance, 40°C@24hrs (ISO 2812)	
Adhesion, wet/dry (ASTM D 3359)	5B/5B
Blistering (AST D 714)	No blisters

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

18kg Pail
200kg Drum

For more information and samples contact

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