Technical Data Sheet

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Silfluo LR-M163

Acrylic Modified Silicone Resin

Description

Silfluo LR-M163 is an acrylic-modified silicone resin produced by reaction of silicone resin, acrylic resin, and functional silane intermediates, supplied at 50% solid content in toluene-containing solvent. The combined silicone-acrylic matrix provides hardness, gloss, and heat resistance up to 230°C in the cured film.

When formulated with leafing aluminum powder at a 4:1 resin-to-pigment ratio, the cured coating withstands 400 ± 10°C for 3 hours without peeling, cracking, or blistering.

Typical Technical Properties:

Silfluo Code:	LR-M163
Appearance	Colorless to light yellow transparent liquid, opalescence is permitted
Solid content %	50± 1
Viscosity (Flow Cup No. 4, 25°C, S)	20–80
Curing Profile:	Surface dry in ≤ 2 hours at ambient temperature; fully cured in 1 hour at 180°C
Heat Resistance (Varnish mixed with leafing aluminum powder at a 4:1 ratio, exposed to 400±10°C for 3 hours):	No peeling, no cracking, no blistering

Application

Formulation Binders

Used for formulating heat-resistant coatings, outdoor high-temperature paints, and weather-resistant coatings.

Use Reference

1. Diluent Purity: Any diluents introduced must be free of water, acids, alkalis, amines, and other reactive compounds. Contamination will degrade adhesion, drying profile, and film performance.
2. Safe Handling and Ventilation: This product contains toluene and other flammable solvents. Explosion-proof ventilation must be maintained during application. Keep away from open flames, ignition sources, and static electricity sources. Follow occupational safety protocols and use appropriate personal protective equipment (PPE).
3. Dilution Guidelines: Compatible and dilutable with ketones, esters, toluene, and xylene.

Package &Storage:

In 200kg drum.

Keep in a cool, dry, and well-ventilated environment, strictly avoiding direct sunlight, acids, and alkalis. The shelf life is 6 months from the date of manufacture when stored in original unopened containers (material can still be utilized if it passes quality inspection after the expiration date). Classified and transported as a hazardous substance (flammable liquid).

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