



Silfluo LR-M124

Acrylic Modified Organic Silicone Resin

Descriptions:

Silfluo LR-M124 series is produced by hydrolyzing methyl and phenyl silane monomers to silanol, then copolymerizing with specific acrylic monomers. The resulting silicone-acrylic hybrid matrix combines the gloss, adhesion, and low-temperature curability of acrylic resins with the heat resistance and weatherability of silicone. The series is supplied at 50% solid content in toluene/xylene solvent blend and is capable of both ambient two-component curing and forced thermal curing.

Typical Technical Properties:

Silfluo Code:	LR-M124 series acrylic modified silicone resin				
	M124-120	M124-100	M124-80	M124-60	M124-50
Appearance	Colorless to light yellow transparent liquid, opalescence is permitted				
Solid content %	50±1				
Viscosity (Flow Cup No. 4, 25°C, S)	>120	>100	>80	>60	20-60
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 200-600±10°C for 3 hours):	No peeling, no cracking, no blistering				

Application:

1. High-Temperature and Weather-Resistant Coatings

Used for formulating heat-resistant coatings and weatherproof coatings for outdoor industrial applications.

2. Electrical Insulation

Applied in the formulation of Class H silicone-based insulating varnishes (rated $\geq 180^\circ\text{C}$ continuous service).

Use Reference

1. Ambient Curing (2K System): Formulate with isocyanate hardeners such as Bayer 3390 or N75 at 10-20% addition based on total resin weight for room-temperature cure.

2. Forced Thermal Curing: Bake at 180°C for 1 hour. Compatible with amino resins to accelerate and enhance the thermal cure process.

3. Safe Handling and Ventilation: This product contains toluene, xylene, and other flammable, volatile solvents. Explosion-proof ventilation must be maintained during processing. Keep away from open flames,

Technical Data Sheet



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ignition sources, and static electricity sources. Follow occupational safety protocols and use appropriate personal protective equipment (PPE).

Package &Storage:

In 200kg drum.

Keep in cool, dry place. Avoid acid and alkali contact. Avoid direct sunlight. Transported as hazardous goods .