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Alkyd Modified Silicone Resin LR-M125

Descriptions:

This product is synthesized from silanol, which is hydrolyzed from phenyl and methyl monomers along with alkyd resin through a specialized process. It integrates the benefits of both alkyd resins and silicone resins, offering outstanding heat and weather resistance, strong adhesion, and the ability to cure at low temperatures. Additionally, it features high hardness, excellent pigment dispersion, superior adhesion, and good flexibility.

Typical Technical Properties:

Items	Index
Appearance	Pale yellow liquid, milky white light allowed, free of
	mechanical impurities.
Solid content %	50±1
Viscosity (4# cup, 25°C)S	25-65
Drying time, h	Surface dry 2h, actually dry 24h,180°C 1h
Heat resistance (varnish: leafing	No pooling, no prophing, no hubbling
aluminum powder = 4:1, 400±10°C) 4h	no peeling, no cracking, no bubbling.

Application:

It is well-suited for blending various heat-resistant coatings that withstand temperatures up to 300 $^{\circ}$ C, weather-resistant paints, and H-grade silicone insulating coatings.

Package & Storage:

In 200kg drum.

Keep in cool, dry place. Avoid acid and alkali contact. Stored and transported as dangerous goods. It has shelf life of half a year (can still be used if the product is qualified after the expiration date).

Use Reference:

1. For room-temperature curing, it can be used as a two-component system with isocyanate curing agents such as Bayer 3390, N75, etc., with an addition ratio of 10–20% of the total resin.

2. For high-temperature curing, bake at 180°C for one hour to achieve full curing. It can also be combined with amino resin to reduce curing time.

3. This product contains flammable and volatile solvents such as xylene. During handling, ensure proper ventilation, implement fire prevention measures, and strictly eliminate ignition sources. Operators should follow safety protocols and wear protective equipment.

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