



Silicone Resin Emulsion LR-E169

Description

This product is a non-ionic methyl silicone resin emulsion designed for use in heat-resistant industrial coatings. It exhibits excellent high-temperature resistance, strong film-forming ability, and air-drying properties. The varnish can withstand temperatures of up to 300°C, while colored coatings can resist up to 500°C. It is highly compatible with organic resins and achieves improved self-drying properties at room temperature when combined with a water-based curing agent. This product is water-dilutable and does not contain organic solvents.

Typical Technical Properties:

Item	Index	Test method
Appearance	Milky white liquid	GB1721
Viscosity (4# cup) S	15 - 40	GB1723
Solid content (150°C, 2h), %	50 ± 2	GB1725

Application

Ideal for industrial heat-resistant applications, including boilers, heat source pipelines, electric heaters, and furnaces.

Suitable for ovens and other heat-resistant cooking equipment.

Package &Storage:

In 200kg, 50kg plastic bucket packaging; Stored sealed in a cool and dry environment at 5~36°C. The shelf life is 6 months(can still be used if the product is qualified after the expiration date).

Use Reference:

1. It is recommended to first prepare a water-based resin-free color paste before blending it with the resin emulsion.
2. When combining with organic resins (such as water-based polyamide curing agents), compatibility testing is essential, particularly in varnish applications.
3. The resin emulsion has excellent self-drying properties at room temperature, providing early protection and transport durability for coated workpieces.
4. For optimal heat resistance and enhanced physical and mechanical properties, curing at 200 – 280° C for 15 – 60 minutes is recommended—e.g., 250° C for 30 minutes or 280° C for 15 minutes.