## **Technical Data Sheet**



# Silicone Resin Emulsion LR-EP167

### Description

This product is a non-ionic, epoxy-modified methyl/phenyl resin emulsion designed for use in heatresistant industrial coatings. It provides excellent high-temperature resistance and enhances coating appearance. The heat resistance of varnish paint can reach 300°C, while colored paint can withstand temperatures up to 500°C. It also exhibits good compatibility with organic resins and achieves improved self-drying properties at room temperature when combined with a water-based curing agent. It can be diluted with water.

### **Typical Technical Properties:**

Items	Index	Test method
Appearance	Milk white liquid	GB1721
Viscosity (4# cup) S	25-40	GB1723
Solid content (150°C,2h), %	50± 2	GB1725
Epoxy value (Effective solid content)	0.06-0.16	GB/T1677-2008

#### Application

Suitable for industrial heat-resistant paint applications, this product is particularly ideal for industries requiring salt spray resistance, such as ship steam pipelines and similar environments.

## Package & Storage:

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

#### **Use Reference:**

It is recommended to prepare a water-based resin-free color paste before mixing it with the resin emulsion. When blending with organic resins (such as water-based polyamide curing agents), compatibility testing of the two components is necessary, especially in varnish applications. The resin emulsion has excellent self-drying properties at room temperature, providing early protection and facilitating transportation of coated workpieces. However, for optimal heat resistance and improved physical and mechanical properties, curing at 200–280°C for 15–60 minutes is advised—for example, 250°C for 30 minutes or 280°C for 15 minutes.

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