Technical Data Sheet



Silicone Resin Emulsion LR-EAP176

Description

This product is a non-ionic, acrylic-modified methyl/phenyl silicone resin emulsion designed for use in heat-resistant industrial coatings. It offers excellent high-temperature resistance and enhances coat ing appearance. The heat resistance of varnish paint can reach up to 300°C, while colored paint can withstand temperatures up to 500°C. It has good compatibility with organic resins and achieves effective self-drying at room temperature when used 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

Application

Ideal for industrial heat-resistant paint applications, this product is well-suited for decorative applications requiring enhanced aesthetic quality. It not only provides high-temperature resistance but also ensures a glossy and full-bodied coating finish.

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 and then mix it with the resin emulsion. The resin emulsion exhibits strong self-drying properties at room temperature, offering early protection and easy transportability for coated workpieces. However, for optimal heat resistance and enhanced physical and mechanical properties, curing at 200 – 280° C for 15 – 60 minutes is advised. Low-temperature curing capabilities can be achieved by incorporating a water-based polyurethane or amino curing agent.

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