



Silfluo LR-EAP176

Silicone Resin Emulsion

Description

Silfluo LR-EAP176 is a non-ionic, acrylic-modified methyl/phenyl silicone resin emulsion formulated for heat-resistant industrial coatings. The continuous heat resistance reaches up to 300°C for clear varnishes and up to 500°C for pigmented coatings. It exhibits compatibility with organic resins, cures at ambient temperatures when formulated with water-based curing agents, and is entirely water-dilutable.

Typical Technical Properties:

Silfluo Code:	LR-EAP176
Appearance	Milk white liquid
Viscosity (Flow Cup No. 4, 25°C, S)	25-40
Solid content (150°C, 2h), %	50± 2

Application

1. Industrial Heat-Resistant Coatings: Utilized in industrial high-temperature paints and decorative applications requiring sustained heat resistance, high gloss, and full film build.

Use Reference

1. Formulation Procedure: It is recommended to prepare a water-based, resin-free color paste prior to blending with the resin emulsion.
2. Curing Profile: The emulsion exhibits ambient curing capabilities, providing early handling strength for coated workpieces. To achieve maximum heat resistance and optimal physical-mechanical properties, forced thermal curing at 200 - 280° C for 15 - 60 minutes is recommended.
3. Low-Temperature Modification: Accelerated low-temperature curing can be facilitated by incorporating compatible water-based polyurethane or amino curing agents.

Package & Storage:

Keep sealed in a cool, dry environment at temperatures between 5° C and 36° C. The shelf life is 6 months from the date of manufacture when stored in original unopened containers (material can still be utilized if it passes quality inspection after the expiration date).