



Silfluo LR-EP167

Silicone Resin Emulsion

Description

Silfluo LR-EP167 is a non-ionic, epoxy-modified methyl/phenyl silicone resin emulsion supplied as a milk-white water-based liquid at 50% solid content. The epoxy modification introduces reactive epoxy groups (epoxy value 0.06–0.16 on effective solid content basis) that enable crosslinking with water-based polyamide or amine curing agents at ambient temperature. Heat resistance reaches up to 300°C for clear varnish formulations and up to 500°C for aluminum-pigmented or thermally pigmented coatings.

Typical Technical Properties:

Silfluo Code:	LR-EP167
Appearance	Milk white liquid
Viscosity (Flow Cup No. 4, 25°C, S)	25-40
Solid content (150°C, 2h), %	50± 2
Epoxy value (Effective solid content)	0.06-0.16

Application

Industrial Anti-Corrosion and Thermal Coatings

Used in industrial high-temperature paints requiring salt spray resistance, including marine steam pipelines and related harsh-environment applications.

Use Reference

1. Formulation Procedure: Prepare a water-based, resin-free color paste before blending with the resin emulsion to ensure homogeneous pigment dispersion.
2. Compatibility Testing: When blending with organic resins or water-based polyamide curing agents, thorough compatibility testing is required before production use, particularly for clear varnish formulations.
3. Handling Strength: Ambient curing provides early handling strength sufficient for workpiece transportation after coating application.
4. Curing Profile for Maximum Performance: Forced thermal curing at 200–280°C for 15–60 minutes is recommended to achieve maximum heat resistance and physical-mechanical properties. Recommended profiles:
 - 250°C for 30 minutes
 - 280°C for 15 minutes

Package & Storage:

In 50kg plastic pail and 200kg plastic drum.

Nanjing Silfluo New Material Co., Ltd.

Web: www.silfluosilicone.com Email: inquiry@silfluo.com

1 / 2

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Technical Data Sheet



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Keep sealed in a cool, dry environment at temperatures strictly 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).

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2 / 2

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