



Silfluo LR-E168

Silicone Resin Emulsion

Description

Silfluo LR-E168 is a non-ionic methyl/phenyl silicone resin emulsion supplied as a milky-white, water-dilutable liquid at 50% solid content. The phenyl content in the polymer backbone elevates thermal performance significantly compared to pure methyl silicone emulsions — heat resistance reaches up to 350°C for clear varnish formulations and 650–700°C for pigmented coatings. It can be used as a standalone binder or blended with acrylic, polyester, or epoxy resins to balance the decorative properties of the organic matrix with the thermal stability of the silicone resin.

Typical Technical Properties:

Silfluo Code:	LR-E168
Appearance	Milk white liquid
Viscosity (Flow Cup No. 4, 25°C, S)	15-40
Solid content (150°C, 2h), %	50± 2

Application

1. Industrial Heat-Resistant Coatings

Used in thermal environments including boilers, heat source pipelines, electric heaters, and industrial furnaces.

2. Appliance Coatings

Applied in the formulation of heat-resistant finishes for ovens and related cooking equipment.

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. Curing Profile: Ambient curing provides early handling strength for coated workpieces. For maximum heat resistance and optimal mechanical properties, forced thermal curing at 200–280°C for 15–60 minutes is recommended. Recommended profiles:

- 250°C for 30 minutes
- 280°C for 15 minutes

Package & Storage:

In 50kg plastic pail and 200kg plastic drum.

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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