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Silfluo LR-608

Organic Silicone Resin

Descriptions:

Silfluo LR-608 is a high-solids organic silicone resin synthesized from multifunctional organosilane monomers through a controlled polymerization process, supplied at 80% solid content in toluene-containing solvent. The high functionality of the monomer system results in a highly crosslinked cured film with exceptional hardness, abrasion resistance, and electrical insulation. A key distinguishing property is its ceramic conversion behavior: upon high-temperature thermal degradation (sintering), the resin converts to stable Si – O or Si – C bonds, yielding a high ceramic residue that maintains structural adhesion under extreme thermal conditions. This makes LR-608 suitable for refractory adhesive and high-temperature bonding applications where conventional organic resins would combust and fail.

Typical Technical Properties:

Silfluo Code:	LR-608
Appearance:	Colorless to light yellow liquid, opalescent light is allowed
Viscosity (Flow Cup No. 4, 25°C, S):	400 -1200
Solid content %:	80 ±2

Application:

1. Laminate Manufacturing

Used as a binding matrix for manufacturing high-hardness mica boards and glass fiber boards requiring structural integrity and electrical insulation.

2. Refractory and Thermal Adhesives

Serves as a refractory adhesive, high-temperature bonding agent, and high-temperature sealant where ceramic conversion upon sintering maintains bond integrity at extreme temperatures.

3. Metal and Decorative Protection

Applied as a protective coating for metal products and decorative materials to improve wear resistance, aging resistance, hydrophobicity, UV resistance, and corrosion resistance.

Use Reference

1. Diluent Purity: Any diluents introduced must be free of water, acids, alkalis, amines, and other reactive compounds. Contamination will degrade adhesion, drying profile, and film properties.

2. Safe Handling and Ventilation: This product contains toluene and other flammable, volatile solvents. Explosion-proof ventilation must be maintained during processing. Keep away from open flames, ignition sources, and static electricity sources. Follow occupational safety protocols and use appropriate personal protective equipment (PPE).

3. Dilution Guidelines: Compatible and dilutable with ketones, esters, toluene, and xylene. Given the high

starting viscosity (400–1200 s), significant dilution will typically be required for spray or dip coat application.

Package &Storage:

In 200kg drum.

Keep in a cool, dry, and well-ventilated environment, avoiding direct sunlight, acids, and alkalis. 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). Classified and transported as a hazardous substance (flammable liquid).