



Silfluo LS-OP200

Epoxy Silane Oligomer

Description

Silfluo LS-OP200 is a glycidoxypropyl-modified silane oligomer, a pre-condensed epoxy-functional siloxane oligomer.

The product consists of partially condensed siloxane units carrying reactive glycidoxypropyl (epoxy) groups, formed by controlled hydrolysis and condensation of epoxy-functional trimethoxysilane monomer.

The oligomeric siloxane backbone provides hydrolytic stability and reduced alkoxy group content relative to monomeric gamma-glycidoxypropyltrimethoxysilane (GPS), lowering alcohol emission during cure.

The epoxy groups participate in ring-opening reactions with amines, carboxyls, and phenols, enabling crosslinking in epoxy, polyurethane, acrylic, and polysulfide resin systems.

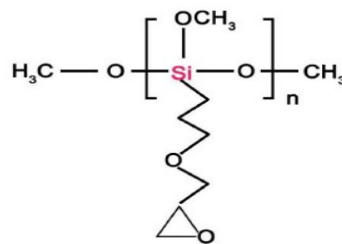
Used as low-VOC crosslinker and adhesion promoter in waterborne, solvent-borne, high-solids, and solvent-free coating, adhesive, and sealant formulations.

Performance equivalent to Momentive CoatOSil MP 200.

Typical Physical Properties

Silfluo Code.	LS-OP200
Chemical Name	Epoxy-functional siloxane oligomer Glycidoxypropyl-modified silane oligomer
Appearance	Colorless Transparent Liquid
Viscosity (mPa.s)	40-100
Density (25° C, g/cm ³):	1.100 - 1.150
Refractive Index (n _{25.D})	1.4450-1.4650
Flash Point (Closed Cup):	> 100° C

Chemical Structure



Applications

1. Marine and heavy-duty anti-corrosion coatings

Used as low-VOC crosslinker and adhesion promoter in epoxy and polyurethane primer systems for marine, offshore, and industrial environments.

2. Automotive and industrial finishes

Nanjing Silfluo New Material Co., Ltd.

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

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Technical Data Sheet



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Used as performance modifier in OEM automotive clearcoats, coil coatings, and architectural paints.

3. Structural adhesives and sealants

Used to modify structural adhesives and high-movement sealants for improved cohesive strength and wet adhesion to glass, aluminum, and engineered substrates.

4. Waterborne and high-solids resin upgrading

Used as reactive additive in waterborne and high-solids resin systems to improve mechanical and corrosion resistance performance.

Packing

In 200kg drum and 1000kg IBC.

Safety and Storage

Store at or below 25°C in a cool, dry, well-ventilated place away from direct sunlight and heat. Keep containers tightly sealed.

Shelf life: 12 months minimum from manufacture date in original unopened containers stored at or below 25°C.