Technical Data Sheet

www.silfluosilicone.com

Silfluo LS-O9831

Octyl Silane Oligomer (Low-VOC Hydrophobic Sealer)

Description:

Silfluo LS-O9831 is an oligomeric N-octyltrimethoxysilane hydrolysate, a pre-condensed octylsilane oligomer.

The product consists of partially condensed octylsiloxane units with residual methoxy groups, formed by controlled hydrolysis and condensation of octyltrimethoxysilane monomer.

The oligomeric structure reduces vapor pressure and methanol emission relative to the monomeric silane; residual methoxy groups remain available for further condensation on substrate contact.

The C8 octyl chains provide hydrophobic character on treated porous inorganic surfaces; the siloxane backbone anchors to substrate hydroxyl groups.

Used as penetrating water repellent for construction and masonry substrates, hydrophobic additive in exterior coatings, and surface modifier for glass, ceramic, and textile applications.

Typical Physical Properties

Silfluo Code:	LS-O9831
Chemical Name:	Oligomeric N-Octyltrimethoxysilane hydrolysate
Synonyms	Octyltrimethoxysilane oligomer
Active Content:	High-purity oligomer
Appearance:	Colorless to pale yellow transparent liquid
Density (25°C, g/cm3):	Approx. 1.000
Refractive Index (25°C):	1.4200 - 1.4400
Flash Point (Closed Cup):	> 100°C

Applications:

1. Construction and masonry water repellents

Used as penetrating water repellent for concrete, brick, natural stone, and infrastructure substrates.

2. Exterior paints and architectural coatings

Used as hydrophobic additive in exterior paints and plasters for improved water resistance and weatherability.

3. Glass and ceramic surface modification

Used as surface treatment agent for automotive glass and sanitary ceramics for easy-to-clean and anti-smudge properties.

4. Textile waterproofing

Used as water-resistant surface treatment for technical textiles and industrial fabrics.

Property	LS-O9831	LS-O9832
Base monomer	Octyltrimethoxysilane	Octyltriethoxysilane
Hydrolysis byproduct	Methanol	Ethanol

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Property	LS-O9831	LS-O9832
VOC / toxicity profile	Lower flash point risk vs. O9832	Safer ethanol release
Primary distinction	Standard hydrophobic sealer	Eco-preferred, methanol-free

Packing

In 180kg drum and 900kg IBC.

Safety and Storage

Store at or below 25°C in a cool, dry, well-ventilated place. Keep containers tightly sealed; moisture contact causes premature condensation to insoluble resin.

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

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