Technical Data Sheet

www.silfluosilicone.com

Silfluo LS-O146

Oligomeric Diamino Functional Silane

Description

Silfluo LS-O146 is an aqueous diaminofunctional silane hydrolysate, a pre-hydrolyzed diamino-functional siloxane oligomer supplied as a water-based solution.
The product is fully pre-hydrolyzed; no alcohol byproduct is released during formulation or application.
The diaminofunctional structure provides two amine groups per silane unit, giving higher amine functionality relative to monoaminosilane analogs such as LS-O110.
Used as VOC-free adhesion promoter and coupling agent in waterborne coating systems, sealants and adhesives, and glass fiber and mineral filler sizing applications.
Performance equivalent to Evonik Dynasylan 1146.

Typical Physical Properties

Product No.	Silfluo LS-O146
Chemical Name:	Aqueous diaminofunctional silane hydrolysate
CAS NO.	Mixture
Formula:	Aqueous Polymeric Mixture
Appearance:	Colorless transparent liquid to light yellowish
Density(ρ20°C, g/cm³):	1.06
Viscosity(mPa·s):	approx. 35
VOC Content:	VOC-Free

Applications

1. Waterborne coating systems
Used as VOC-free adhesion promoter in waterborne acrylic, polyurethane dispersion, and waterborne epoxy coating systems.
2. Sealants and adhesives
Used to improve unprimed adhesion of SMP.MS polymers, 2K polyurethane, and water-based adhesive systems to glass, metal, and mineral substrates.
3. Glass fiber and mineral filler sizing
Used as environmentally compliant surface treatment and sizing agent for glass fibers, ATH, and MDH mineral fillers in composite applications.

Property	LS-O110	LS-O146
Amino functionality	Monoamino (3-aminopropyl)	Diamino

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Property	LS-O110	LS-O146
Amine groups per unit	1	2
Equivalent reference	Evonik Dynasylan HYDROSIL 115	Evonik Dynasylan 1146
Primary distinction	General adhesion promotion	Higher amine density for demanding reactive systems

Packaging

In 20kg pail, 190kg drum and 950kg IBC

Safety and Storage

Store at or below 35°C in a cool, well-ventilated place away from direct sunlight and open flames. Keep containers tightly sealed. Do not freeze.
Shipped as non-hazardous substance;
Shelf life: 12 months minimum from manufacture date in original unopened containers under recommended storage conditions.

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