



Silfluo LS-O110

Waterborne Amino Silane Oligomer (VOC-Free)

Description:

Silfluo LS-O110 is an aqueous 3-aminopropylsilane hydrolysate, an amino-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 amino-functional siloxane oligomer provides reactive amine groups for bonding to organic polymer matrices and siloxane groups for condensation with hydroxylated inorganic surfaces.

The oligomeric siloxane backbone forms a denser interfacial crosslinked layer compared with monomeric aminosilane under equivalent conditions.

Used as VOC-free adhesion promoter and coupling agent in waterborne coatings, fiberglass sizing, mineral binders, foundry resins, and aqueous sealant systems.

Performance equivalent to Evonik Dynasylan HYDROSIL 1151.

Typical Physical Properties

Silfluo Code:	LS-O110
Chemical Name:	Amino Silane Oligomer
Synonyms	Aqueous 3-aminopropylsilane hydrolysate; Aminofunctional alkoxy-silanes
Appearance:	Colorless transparent liquid
Solid Content (%):	20-24
Density (25°C, g/cm ³)	1.06
Refractive Index (n _D ²⁵)	1.3690-1.3795
Flash Point:	80°C Closed Cup
Chemical Structure:	

Applications:

1. Waterborne paints and coatings

Used as VOC-free adhesion promoter in waterborne epoxy, acrylic, and polyurethane coating systems for metallic and glass substrates.

2. Fiberglass sizing and composites

Used as primary coupling agent in aqueous sizing baths for glass fibers and woven glass fabrics.

3. Mineral insulation and bonded abrasives

Used in water-based phenolic resin binders for mineral wool insulation and bonded abrasive manufacturing.

4. Foundry resin systems

Used as performance additive in cold-curing phenolic and furan foundry binder systems for sand core applications.

Technical Data Sheet



www.silfluosilicone.com

5. Water-based sealants and adhesives

Used as internal crosslinker and filler-treatment agent in aqueous sealant and adhesive formulations.

Packing

In 25kg pail, 200kg drum and 1000kg IBC.

Safety and Storage

Store between 5° C and 25° C in a cool, well-ventilated place away from direct sunlight, heat, and open flames. Keep containers tightly sealed. Do not freeze.

Shelf life: 12 months minimum from manufacture date in original unopened containers stored between 5° C and 25° C. Product beyond shelf life may still be usable; verify relevant properties before use.