Technical Data Sheet

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Silfluo LS-E88

Alpha-Amino Functional Silane

Description:

Silfluo LS-E88 is N-(2-aminoethyl)aminomethyltriethoxysilane, an alpha-amino functional silane.
The molecule contains one primary amine, one secondary amine, and one triethoxysilyl group, connected to silicon through a methylene bridge.
The alpha-silane structure gives different hydrolysis and condensation behavior compared with conventional gamma-aminosilanes.
The amine groups interact with compatible resin systems and selected inorganic surfaces.
The triethoxysilyl group hydrolyzes and forms siloxane linkages or bonds to hydroxylated inorganic surfaces under suitable moisture, pH, and catalyst conditions.
Hydrolysis releases ethanol; assess VOC, flammability, and workplace exposure per formulation and local requirements.
Used as adhesion promoter, crosslinking additive, or reactive silane component in RTV silicone systems, silane-modified polymers, SPUR systems, primers, coatings, and adhesives.
Cure behavior, adhesion, storage stability, and catalyst demand require verification in the target formulation.

Typical Technical Properties

Silfluo Code:	LS-88
Chemical Name:	2-aminoethylamine methyl triethoxysilane
Synonyms:	
CAS No. :	
Molecular Formula:	$C_9H_{24}N_2O_3Si$
Molecular Weight:	236.44
Appearance:	Colorless transparent liquid
Purity (by GC, %):	
Density (20°C, g/cm^3):	
Refractive Index (nD 25°C):	

Applications:

1. RTV silicone systems

Used as adhesion promoter or crosslinking additive in room-temperature-vulcanizing silicone systems. Verify skin-over time, deep-section cure, adhesion, and storage stability by formulation testing.

2. SMP, MS polymer, and SPUR systems

Used as reactive silane component in silane-modified polymer and silyl-terminated polyurethane systems. Test cure profile, modulus, elongation, adhesion, and catalyst demand in the final formulation.

3. Primers and coatings

Used in primer and coating formulations requiring amino functionality and alkoxysilane reactivity. Test wet adhesion, dry adhesion, film properties, and storage stability in the target system.

4. Adhesives

Used in epoxy, polyurethane, silicone, and hybrid adhesive systems. Verify cure behavior, bond strength, moisture resistance, and substrate adhesion by application testing.

5. Surface treatment

Used in surface treatment applications for glass, silica, mineral fillers, and metal oxide surfaces. Confirm compatibility and treatment performance in the target process.

Packing

In 25kg pail and 200kg drum.

Safety and Storage

Keep in a cool, dry, and well-ventilated environment, avoiding direct sunlight, heat, and ignition sources. Because of its extreme reactivity (alpha-effect), it must be rigorously protected from any ambient moisture prior to formulation. Keep in tightly sealed, original unopened containers. Storage beyond the initially recommended shelf life does not necessarily mean the product is unusable; however, the properties required for the intended use must be thoroughly checked for quality assurance reasons prior to application.