Technical Data Sheet

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Silfluo LS-AS332

Latent Aminosilane (Ketimine Triethoxysilane)

Description:

Silfluo LS-AS332 is 3-(1,3-Dimethylbutylidene)aminopropyltriethoxysilane, a latent aminosilane.
The molecule contains a ketimine-blocked amine structure and a triethoxysilyl group.
The ketimine structure reduces immediate amine reactivity under dry conditions.
In the presence of moisture, the ketimine group hydrolyzes and generates primary amine functionality.
The triethoxysilyl group hydrolyzes and participates in siloxane formation or bonding 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 latent adhesion promoter, reactive silane additive, or curing support additive in one-component polyurethane, epoxy, adhesive, sealant, coating, and primer systems.
Storage stability, amine release behavior, cure profile, adhesion, and by-product profile require verification in the target formulation.
Performance equivalent to Shin-Etsu KBE-9103.

Typical Physical Properties

Silfluo Code:	LS-AS332
Chemical Name:	3-(1,3-dimethylbutylidene)aminopropyltriethoxysilane;
Synonyms	N-(1,3-Dimethylbutylidene)-3-(triethoxysilyl)-1-propanamine;
CAS No. :	116229-43-7
EINECS No. :	467-100-8
Molecular Formula:	$C_{15}H_{33}NO_3Si$
Molecular Weight:	303.52
Appearance:	Colorless to pale yellow liquid
Purity (by GC, %):	98min
Density (25°C, g/cm³):	0.93
Refractive Index (n25.D):	1.437
Boiling Point:	134°C
Flash Point:	131°C Closed Cup
Chemical Structure:	

Applications:

1. One-component polyurethane adhesives and sealants

Used as latent adhesion promoter or reactive silane additive in 1K polyurethane adhesive and sealant

systems. Verify storage stability, amine release behavior, cure profile, and adhesion in the target formulation.
2. One-component epoxy systems
Used as latent curing support additive in selected 1K epoxy adhesive and coating systems where delayed amine reactivity is required. Verify storage stability, cure trigger behavior, and final mechanical properties by formulation testing.
3. Coatings and primers
Used as reactive silane additive or adhesion promoter in coating and primer systems for glass, metal oxide, mineral, and other hydroxylated inorganic surfaces. Verify wet adhesion, dry adhesion, and storage stability in the target system.
4. Moisture-curable sealant systems
Used in selected moisture-curable hybrid sealant formulations where controlled amine release and alkoxysilane reactivity are both required. Verify cure profile, adhesion, and by-product profile in the final formulation.
5. Surface treatment intermediates
Used as latent aminosilane component in surface treatment development where immediate amine reactivity is not desired. Verify treatment efficiency and compatibility in the target process.
Applications derived from molecular functionality and ketimine silane chemistry; verify suitability in the target system.

Packing
In 200L drum and 1000kg IBC.

Safety and Storage
Store in a cool, dry, well-ventilated environment. Keep away from direct sunlight, heat, and open flames.
The product is moisture-sensitive; keep in tightly sealed original containers.
Hydrolysis releases ethanol and ketone by-products; assess VOC and workplace exposure per local regulations.
Shelf life: 12 months minimum from manufacture date when stored at ≤25° C in original tightly sealed unopened containers.