

Silquest* A-1524

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Description

Silquest A-1524 silane, gamma-Ureido- propyltrimethoxysilane, is a 100-percent active ureidosilane that may be used to promote adhesion between a wide range of resins and substrates, fillers or reinforcements.

Key Features and Benefits

The chemical structure of Silquest A-1524 silane offers a number of important benefits:

Structural Features	Benefits
100% Active Ingredient	<ul style="list-style-type: none"> • Contains no flammable or combustible solvent. [Flash Point of 99°C (210°F) – Tag Closed Cup] • Contains no alcoholic solvent diluent, making it suitable for use in reactive polymer systems such as isocyanateterminated polyurethane polymers • Offers low VOC emissions
Methoxysilane Ester	<ul style="list-style-type: none"> • Rapid attainment of bond strength • Fast hydrolysis of silane ester group in resin systems • Good water solubility
Ureidofunctional Group	<ul style="list-style-type: none"> • Longer pot life (stability) than aminosilanes in reactive polymer systems such as phenolic, epoxy, ureamelamine or polyurethane • Does not generate color with time and aging • Provides nitrogen reactivity without the strong basic characteristics of typical aminosilanes • Exhibits excellent urethane adhesive and sealant adhesion to oily metals

Typical Physical Properties

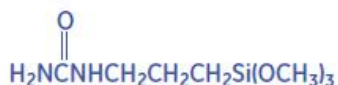
Physical Form	Viscous liquid
Color	Amber, clear, pale
Active Ingredients, %	100
Specific Gravity, 25/25°C	1.15
Refractive Index, n_D 25°C	1.386
Flash Point ⁽¹⁾ , Tag Closed Cup, °C (°F)	99 (210)
Boiling Point, 700 mm Hg, °C	217-250

(1) ASTM Method D56

Solubility

Silquest A-1524 silane is soluble in methanol, ethanol, acetone, toluene and water. Silquest A-1524 silane reacts with water and alcoholic solvents. Hydrolysis releases methanol. In water, a concentration of one weight percent is stable for approximately 72 hours.

Chemical Structure



Potential Applications

Silquest A-1524 silane is recommended for evaluation when inorganic surfaces such as fiberglass, particulate fillers or metals are combined or over-coated with phenolic, urea-melamine, epoxy resins, polyamide and/or polyurethane polymers. The silane improves adhesion between the inorganic filler or fiber and the polymer. Specific applications in which Silquest A-1524 silane may be useful are in adhesives, sealants, glass fiber sizes and finishes, wool insulation resin binders, primers, foundry sand and abrasive grinding wheel binders.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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