



# Silquest\* A-1524

## Silquest\* A-1524

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

### Typical Physical Properties

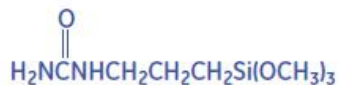
Physical Form	Viscous liquid
Color	Amber, clear, pale
Active Ingredients, %	100
Specific Gravity, 25/25°C	1.15
Refractive Index, $n_D$ 25°C	1.386
Flash Point <sup>(1)</sup> , Tag Closed Cup, °C (°F)	99 (210)
Boiling Point, 700 mm Hg, °C	217-250

(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

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