

# Manta AM121

## Functional silane

### Description

AM121 is characterized by its high reactivity toward moisture because of its structural proximity of the nitrogen atom to the silicon atom (alpha-effect). AM121 is very important in systems that cure very rapidly at room temperature on exposure to (atmospheric) moisture. This applies particularly to formulations in which alphaorganofunctional terminal groups function as crosslinkers. The addition of AM121 greatly improves the storage stability. It is especially suitable for producing highly flexible products with a low modulus of elasticity. This is because the dialkoxysilyl group functions as a chain extender during curing of the prepolymer, producing a lower degree of crosslinking.

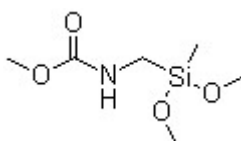
### The Equivalent List

Manta	Momentive	Dow	Evonik	Wacker	Shin-Etsu
AM121				Geniosil XL 65	

### Typical Physical Properties

Manta code:	AM121
Chemical Name:	[(Methylcarbamato)methyl]dimethoxymethylsilane
Synonyms	N-[Dimethoxymethylsilyl)methyl]-O-methylcarbamate; Methyl N-[[[(dimethoxy)(methyl)silyl]methyl]carbamate;
CAS NO.	23432-65-7
Formula	C <sub>6</sub> H <sub>15</sub> NO <sub>4</sub> Si
Appearance	Colorless Transparent Liquid
Density ( $\rho$ 20°C, g/cm <sup>3</sup> )	1.05-1.15
Refractive Index ( $n_D^{25\text{ }^\circ\text{C}}$ )	1.4300-1.4400
Purity	≥97%
Molecular Weight	193.27

Chemical Structure:



### Properties

dialkoxysilyl group functions as a chain extender

### Applications

Manta AM121 is used as a water scavenger in the production of moisture-curing adhesive and sealant formulations. It is important particularly in systems using highly reactive silane-modified polymers based on alpha-organofunctional silanes(eg STP-D10). As a bifunctional silane, AM121 functions additionally as a chain extender and is thus ideally suited for highly flexible products.

### Packaging

In 500g, 1000g, 25kg pail, 200kg drum.

### Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is min. 9 months. It is shipped as non-hazardous substance.

### Contact Information

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