

## Manta L320

Alkyl functional organosilane

### Description

Manta L320 is high purity, undiluted N-octyltriethoxy-silane. When diluted with an appropriate solvent, it can be used in the formulation of water repellent products. Upon proper application, the formulated product will penetrate and provide water repellency by chemically reacting with the cementitious substrate. Treated substrates are hydro-phobic and retain their original appearance.

L320 can also be used to improve the compatibility of mineral fillers or pigments in polyolefins or to ease their dispersion in nonpolar matrices.

L320 is a small molecule to allow for deep penetration into the cementitious surface. This material reacts with moisture in the air and in the substrate in the presence of an alkaline or acidic environment to produce hydroxyl groups. These hydroxyl groups will bond with the substrate and itself to produce a hydrophobic treatment that inhibits water absorption into the substrate. An alkaline environment, such as new concrete, will catalyze the reaction and speed the formation of the hydrophobic surface.

### The Equivalent List

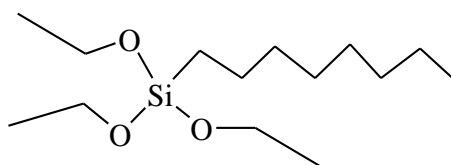
Manta	Momentive	Dow	Evonik	Wacker	Shin-Etsu
L320	A-137	OFS-6341	OTES		KBE-3083

### Typical Physical Properties

Manta code:	L320
Chemical Name:	N-Octyltriethoxysilane
Synonyms	Triethoxyoctylsilane
CAS No. :	2943-75-1
EINECS No. :	220-941-2
Appearance:	Colorless transparent liquid
Purity (by GC, %)	98.0 min
Specific Gravity ( $\rho_{20^{\circ}\text{C}}$ , g/cm <sup>3</sup> )	0.874-0.884

Refractive Index ( $n_D^{25^{\circ}\text{C}}$ ): 1.4120 -1.4220

Chemical Structure:



### Properties

- Can be used in the formulation of water repellent products
- Produces a hydrophobic treatment that inhibits water absorption
- Can improve dispersion of polar fillers

### Applications

- 1) Octyltriethoxysilane can be used as a surface modifier to generate hydrophobicity (e.g. on concrete, glass, inorganic pigment, or mineral fillers).
- 2) When diluted with an appropriate solvent, it can be used in the formulation of water repellent products. Upon proper application, the formulated product will penetrate and provide water repellency by chemically reacting with the cementitious substrate. Treated substrates are hydrophobic and retain their original appearance.

### Packaging

In 20kg pail, 180kg drum and 900kg IBC

### Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is 24 months. It is non-hazardous substance.

### Contact Information

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