

Manta L321

Alkyl functional silane

Description

Manta L321 is high purity, undiluted isobutyl trimethoxysilane. 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.

Manta L321 can also be used to improve the compatibility of mineral fillers or pigments in polyolefins or to ease their dispersion in nonpolar matrices.

L321 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.

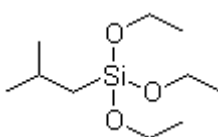
The Equivalent List

Manta	Momentive	Dow	Evonik	Wacker	Shin-Etsu
L321		OFS-6403	IBTEO Catylen D1200	SILRES® BS 1701	

Typical Physical Properties

Manta code:	L321
Chemical Name:	Iso-Butyltriethoxysilane
Synonyms	
CAS No. :	17980-47-1
EINECS No. :	402-810-3
Appearance:	Colorless transparent liquid
Purity (by GC, %)	98.0 min
Specific Gravity ($\rho_{20^{\circ}\text{C}}$, g/cm ³)	0.8800±0.0050
Refractive Index ($n_D^{25^{\circ}\text{C}}$):	1.4000 ±0.0050

Chemical Structure:



Applications

L321 can be used as a surface modifier to generate hydrophobicity(e.g. on concrete, glass, inorganic pigment, or mineral fillers) 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, 170kg drum and 850kg IBC

Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is 12 months. It is non-hazardous substance.

Contact Information

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