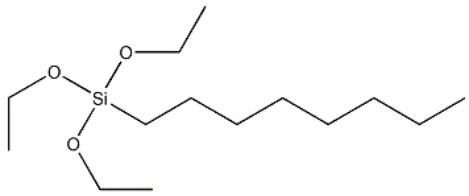
n-Octyl triethoxysilane

Chemical Structure:



Typical Physical Properties

Product No.:	KBR-815
Chemical Name:	n-Octyl triethoxysilane
CAS No.:	2943-75-1
EINECS No.:	220-941-2
Molecular Formula:	C14H32O3Si
Molecular Weight:	276.49
Appearance:	Colorless transparent liquid
Density(ρ 20, g/cm3):	0.8790 ± 0.0050
Refractive Index(n25D):	1.4170 ± 0.0050
Purity:	98%

Applications:

Commercial buildings
Parking decks/garages
Highways
Bridge structures
Filler modification

Description

KBR-815 Silane is high purity, undiluted Noctyltriethoxy-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.

KBR-815 Silane can also be used to improve the compatibility of mineral fillers or pigments in polyolefins or to ease their dispersion in nonpolar matrices.

KBR-815 Silane is a small molecule to allow for deep penetration into the cementitious surface. This material reacts with moisture in the air and n the substrate in the presence of an alkaline or acidic environment to produce hydroxy groups. These hydroxy 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.

HOW TO USE

Dilution

KBR-815 Silane can be diluted in solvents such as alcohols, chlorinated solvents, aliphatic solvents and low molecular weight cyclic polydimethylsiloxane such as D4 Cyclotetrasiloxane before use.

Typical dilution

levels are 40 percent and 20 percent Silane in a solvent.

Blends of the solvents can also be used. The evaporation rate of the diluted material can be modified depending on the type and concen-tration of the solvent. Select the proper solvent for your application, as some silane/solvent blends may darken the surface. Refer to the manufacturer’s data sheet for proper handling and disposal of solvents.

Application

Methods of application include airless sprayer, roller and brush. When a brush or roller is used, repeated applications should be made until the surface remains moist for a few minutes. If an airless sprayer is used, application should continue until the substrate is thoroughly saturated. Sprayers should be fitted with solventresistant hoses and gaskets.

A test application is necessary on each surface to be treated to ensure compatibility and the desired water repellent result. Surfaces should be free of standing water, surface dirt,dust, oils and other contaminants. Formulated KBR-815 Silane may be applied to damp surfaces although dry surfaces are preferred to achieve maximum penetration into the substrate.

Safety

Risk Statements :	36/37/38
Safety Statements :	26-36-37/39
RTECS No.:	VV6695500
WGK Germany:	1
TSCA:	YES
HS Code:	29310095

Packaging

210LIron Drum：180kg/drum

1000L IBCContainer: 870kg/container