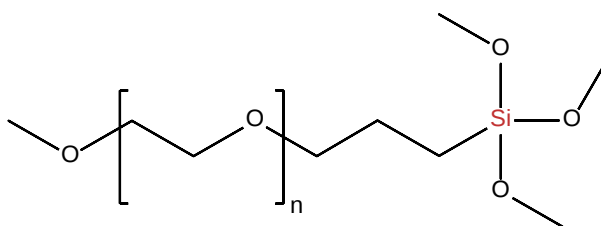


SiSiB® PC9011 PEG-SILANE

CHEMICAL NAME

Polyethyleneglycol-Functional Alkoxysilane
(Methoxy Polyethyleneoxy Propyl Trimethoxysilane)

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB® PC9011 is a ready-to-use polyethyleneglycol-functional alkoxysilane and is soluble in water and most organic solvents.

SiSiB® PC9011 helps control rheological properties and reduce viscosity in highly filled polymer systems, particularly those containing aluminum hydroxide (ATH), magnesium hydroxide (MDH) and other inorganic fillers.

The product exhibits strong chemical polarity and can function as a hydrophilic compatibilizer, improving the compatibility between inorganic materials and organic polymer matrices. It also contributes to improved filler wetting, dispersion and processing performance.

In unsaturated polyester, SMC and other highly filled formulations, SiSiB® PC9011 can facilitate higher filler loadings while maintaining workable viscosities.

SiSiB® PC9011 may also be used as a wetting and lubricating component in glass fiber sizing formulations, as well as a surface modifier for inorganic and mineral substrates.

CAS NUMBER

65994-07-2

EINECS NUMBER

670-227-3

FEATURES & BENEFITS

- Soluble in water and most organic solvents
- Improves wettability and dispersibility of inorganic materials

SiSiB® PC9011 PEG-SILANE

- Reduces viscosity in highly filled systems
- Enhances compatibility between inorganic fillers and polymer matrices
- Functions as a hydrophilic compatibilizer
- Improves pigment dispersion, particularly in aqueous systems
- Can be used as a wetting and lubricating component in glass fiber sizing formulations
- Suitable for filler pretreatment or direct addition into formulations

PHYSICAL PROPERTIES

Appearance	Pale yellow transparent liquid
Density 25°C	1.06
Refractive Index 25°C	1.445
Viscosity (mPa·s, 25°C)	10-20
SiO ₂ Content, %	8.5-10.5
Active Component	Min.99.0%

These values are typical and are not intended for use as specifications.

APPLICATIONS

Mineral Filler Treatment

SiSiB® PC9011 is suitable for the treatment of aluminum hydroxide (ATH), magnesium hydroxide (MDH), calcium carbonate, talc, silica, titanium dioxide and other inorganic fillers. It improves filler wetting, dispersion and processability while helping reduce viscosity in highly filled polymer systems. SiSiB® PC9011 is particularly suitable for unsaturated polyester, SMC and other highly filled formulations.

Pigment and Inorganic Powder Modification

SiSiB® PC9011 is suitable for the treatment of inorganic pigments and functional mineral powders. It improves wetting and dispersion efficiency, reduces agglomeration and helps achieve higher pigment or filler loadings at a given viscosity.

Waterborne Coatings

SiSiB® PC9011 can be used in waterborne acrylic, polyurethane and industrial coating systems. Improved pigment dispersion and substrate wetting contribute to enhanced formulation stability and coating appearance.

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Adhesives and Sealants

SiSiB® PC9011 can be incorporated into adhesive and sealant formulations to improve compatibility between inorganic fillers and polymer matrices and facilitate filler incorporation.

Glass Fiber Sizing

SiSiB® PC9011 can be used as a wetting agent, lubricant and dispersing component in glass fiber sizing formulations. It contributes to improved processing performance and sizing stability.

Surface Modification

SiSiB® PC9011 is suitable for modifying inorganic and mineral surfaces where improved wettability, hydrophilicity or slip properties are desired. It can be used to optimize surface characteristics without significantly affecting the bulk properties of the substrate.

PACKING

SiSiB® PC9011 is supplied in 25Kg plastic drum, 200Kg steel drum.

STORAGE

Keep containers tightly closed and protect from moisture. Store in a cool, dry and well-ventilated area.

Protect from frost and avoid prolonged exposure to temperatures below 0°C. The product may become solid at low temperatures but can be restored without deterioration after warming.

When stored in the original unopened container under recommended conditions, SiSiB® PC9011 has a shelf life of 12 months from the date of manufacture.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

SiSiB® PC9011 PEG-SILANE

NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.