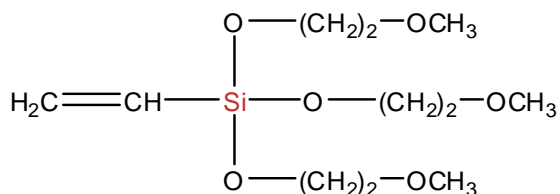


SiSiB[®] PC6130

Vinyltris(2-methoxyethoxy)silane

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB[®] PC6130 is a vinyl-functional coupling agent that promotes adhesion among unsaturated, polyester-type resins or crosslinked polyethylene resins or elastomers and inorganic substrates, including fiber glass, silica, silicates and many metal oxides. When used as coupling agent, it reduces the sensitivity of the products' mechanical and electrical properties to heat and/or moisture.

TYPICAL PHYSICAL PROPERTIES

CAS No.	1067-53-4
EINECS No.	213-934-0
Formula	C ₁₁ H ₂₄ O ₆ Si
Molecular Weight	280.4
Boiling Point	285°C [760mmHg]
Flash Point	92°C
Color and Appearance	Colorless transparent liquid
Density _{25/25°C}	1.035
Refractive Index	1.427 [25°C]
Min. Purity	98.0%

Reactivity: In the presence of moisture the methoxyethoxy groups of SiSiB[®] PC6130 hydrolyze to produce 2-methoxyethanol and reactive silanol (Si-OH) groups which can bond to a variety of inorganic substrates or react with each other to form siloxane bonds (Si-O-Si). The organophilic vinyl end of SiSiB[®] PC6130 can also react with a suitable polymer (activated by peroxide or radiation).

APPLICATIONS

SINOPCC GROUP

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SiSiB[®] PC6130

Vinyltris(2-methoxyethoxy)silane

SiSiB[®] PC6130 is used as an efficient adhesion promoter for various mineral-filled polymers, improving mechanical and electrical properties especially after exposure to moisture.

SiSiB[®] PC6130 is used as a co-monomer for the preparation of different polymers such as polyethylene or acrylics. Those polymers show an improved adhesion to inorganic surfaces and they can also be crosslinked with moisture.

SiSiB[®] PC6130 is used to improve the compatibility of fillers with polymers, leading to a better dispersibility, reduced melt viscosity and easier processing of filled plastics.

SiSiB[®] PC6130 is used to pretreat of glass, metals, or ceramic surfaces, improve the adhesion of coatings on these surfaces and corrosion resistance.

PACKING AND STORAGE

SiSiB[®] PC6130 is supplied in 200Kg steel drum or 1000Kg IBC container.

In the unopened original container SiSiB[®] PC6130 has a shelf life of one year in a dry and cool place.

NOTES

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.

Please send all technical questions concerning quality and product safety to: silanes@SiSiB.com.