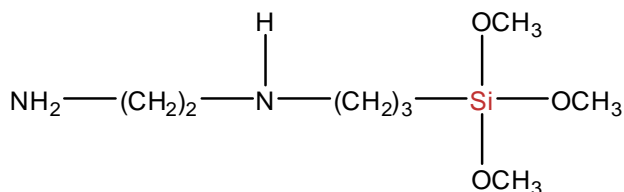


SiSiB[®] PC1200

N-beta-(aminoethyl)-gamma-aminopropyl-trimethoxysilane

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB[®] PC1200 is a clear, colorless, strongly alkaline liquid with smell being very sensitive to hydrolysis.

SiSiB[®] PC1200 is used as adhesion promoter at organic/inorganic interfaces, for modification of surfaces (corrosion prevention, component of primers) or silicone-polymers or as crosslinker (moisture crosslinking of polymers). The application as “coupling agent” leads in general to an improvement of mechanical and electrical product properties above all under exposure to heat and/or moisture.

TYPICAL PHYSICAL PROPERTIES

CAS No.	1760-24-3
EINECS No.	217-164-6
Formula	C ₈ H ₂₂ N ₂ O ₃ Si
Molecular Weight	222.4
Boiling Point	259°C [760mmHg]
Flash Point	128°C
Color and Appearance	Colorless transparent liquid
Density _{25/25°C}	1.025
Refractive Index	1.446 [20°C]
Min. Purity	98.0%

Solubility: SiSiB[®] PC1200 is unlimited miscible with water with spontaneous hydrolysis occurring.

Caution: Due to solution enthalpies mixing water is exothermic. Always stir SiSiB[®] PC1200 into water. With alcohols miscibility is, in general, possible with self-catalyzed exchange of the alkoxy-groups. In aliphatic and aromatic hydrocarbons and

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(moisture-free!) ethers or esters SiSiB[®] PC1200 is easily soluble at differing levels. With ketones and various halogenated compounds a slow reaction can occur. Towards acids, epoxides or isocyanates SiSiB[®] PC1200 shows typical amine function. Some nonferrous metals can discolor upon contact.

APPLICATIONS

SiSiB[®] PC1200 may be used as an effective coupling agent for clay reinforced elastomers such as natural and nitrile rubber, to improve physical and dynamic properties.

SiSiB[®] PC1200 may be used as an effective coupling agent for mineral reinforced nylon 6, nylon 6/6 and polybutyleneterephthalate, to increase the flexural and tensile strength of the thermoplastic composite.

SiSiB[®] PC1200 may be used as a fiberglass finish or a resinous additive for fiberglass reinforced phenolic, melamine and epoxy thermoset composites.

SiSiB[®] PC1200 may be used as a mineral binders in in foundry and abrasive composite applications, to improve adhesion, increase composite strength.

SiSiB[®] PC1200 may be used as a glass and metal primer, to improve the adhesion of many coatings (urethanes, epoxies, phenolics and others) to glass and metal surfaces.

SiSiB[®] PC1200 may be used as an adhesion promoters in polysulfide, polyvinyl chloride plastisol, silicone two part urethane and epoxy adhesives and sealants.

PACKING AND STORAGE

SiSiB[®] PC1200 is supplied in 200Kg steel drum or 1000Kg IBC container.

In the unopened original container SiSiB[®] PC1200 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.

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