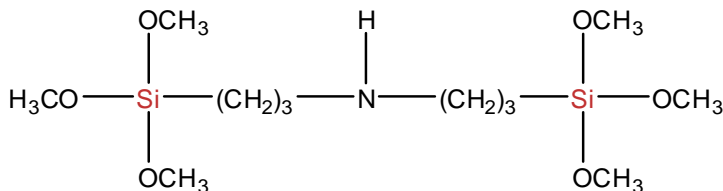


SiSiB[®] PC1118

Bis[(3-trimethoxysilyl)propyl]amine

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB[®] PC1118 is a secondary aminofunctional silane possessing two symmetric silicon atoms. SiSiB[®] PC1118 may act as an adhesion promoter between inorganic materials (for example glass, metals and fillers) and organic polymers (thermosets, thermoplastics and elastomers) or as a surface modifier.

SiSiB[®] PC1118 is a slightly yellowish liquid with an amine-like odor. It is soluble in alcohols, aliphatic or aromatic hydrocarbons.

TYPICAL PHYSICAL PROPERTIES

CAS No.	82985-35-1
EINECS No.	240-084-5
Formula	C ₁₂ H ₃₁ NO ₆ Si ₂
Molecular Weight	341.55
Boiling Point	285°C [760mmHg] 152°C [4mmHg]
Flash Point	140°C
Color and Appearance	Yellowish clear liquid
Density _{25/25°C}	1.04
Refractive Index	1.432 [25°C]
Min. Purity	96.0%

APPLICATIONS

SiSiB[®] PC1118 can be used in many applications, like:

- Foundry resins: as additive to phenolic, furan and melamine resins
- Mineral-filled composites: for pre-treatment of fillers and pigments

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- Metal primers
- Mineral fiber insulating materials, abrasives: as additive to phenolic resin binders
- Sealants and adhesives: as primer or additive
- Paints and coatings: as additive and primer for improving adhesion to the substrate.

SiSiB[®] PC1118 can be used to improve:

Product properties, such as

- Durability at high temperature and humidity
- Flexural strength, tensile strength, impact strength and modulus of elasticity
- Moisture and corrosion resistance

Processing properties, such as

- Excellent primerless adhesion
- Higher filler loading
- Homogeneous distribution of inorganic fillers in polymer matrices
- Rheological behaviour: reduction in viscosity, newtonian behavior
- Wet-out

PACKING AND STORAGE

SiSiB[®] PC1118 is supplied in 200Kg steel drum or 1000Kg IBC container.

In the unopened original container SiSiB[®] PC1118 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.