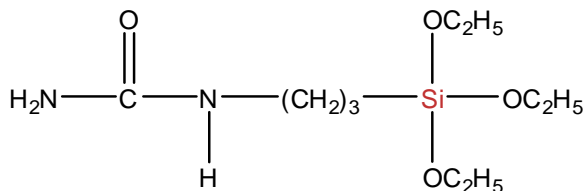


SiSiB[®] PC2520

3-ureidopropyltriethoxysilane

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB[®] PC2520 is a bifunctional organosilane having a reactive organic ureido group and a hydrolyzable inorganic triethoxysilyl group. The dual nature of its reactivity allows SiSiB[®] PC2520 to bind chemically to both inorganic materials (e.g. glass, metals, fillers) and organic polymers (e.g. thermosets, thermoplastics, elastomers), functioning as an adhesion promoter and as a surface modifier.

SiSiB[®] PC2520 is a 100% 3-Uriedopropyltriethoxysilane.

SiSiB[®] PC2521 is a 50% solution of silane in methanol.

TYPICAL PHYSICAL PROPERTIES

| | |
|----------------------------|--|
| CAS No. | 23779-32-0 |
| EINECS No. | 245-876-7 |
| Formula | C ₁₀ H ₂₄ N ₂ O ₄ Si |
| Molecular Weight | 264.39 |
| Boiling Point | 305°C [760mmHg] |
| Flash Point | 138°C |
| Color and Appearance | Light amber paste |
| Density _{25/25°C} | No data |
| Refractive Index | No data [25°C] |
| Min. Purity | 97.0% |

APPLICATIONS

SiSiB[®] PC2520 can be used with such polymers as epoxy, phenolic, furan and melamine

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resins, polyurethanes, PA, PBT, PE, EVA, PP, PVB, PVAC, acrylics and silicones.

SiSiB[®] PC2520 can be used as a size constituent of finish for glass fiber/glass fabric composites.

SiSiB[®] PC2520 can be used as an additive to phenolic, furan and melamine resins for foundry resins and abrasives.

SiSiB[®] PC2520 can be used as an additive for sealants and adhesives.

SiSiB[®] PC2520 can be used as an additive and/or primer for paints and varnishes to improve adhesion to the substrate.

The most important effects which can be achieved using PC2521 are improvements in product properties, such as:

Improved mechanical properties: e.g. flexural strength, tensile strength, impact strength, modulus of elasticity.

Improved resistance to moisture and corrosion.

Higher temperature of deflection under load.

PACKING AND STORAGE

SiSiB[®] PC2520 is usually supplied in 50% methanol solution. SiSiB[®] PC2521 is supplied in 180Kg steel drum.

In the unopened original container SiSiB[®] PC2520 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.

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