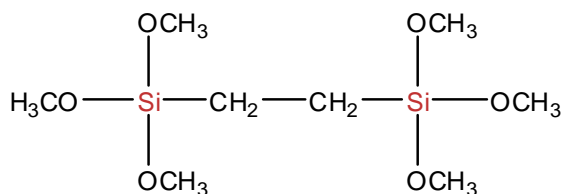


SiSiB[®] PC6112

1,2-Bis(trimethoxysilyl)ethane

CHEMICAL STRUCTURE



INTRODUCTION

SiSiB[®] PC6112 (BTMSE) and SiSiB[®] PC6122 (BTSE) are clear to straw bis-silanes.

SiSiB[®] PC6112 and SiSiB[®] PC6122 both contain two silyl groups, this unique structure enable it to have better adhesion and weather resistance.

TYPICAL PHYSICAL PROPERTIES

CAS No.	18406-41-2
EINECS No.	242-285-6
Formula	C ₈ H ₂₂ O ₆ Si ₂
Molecular Weight	270.43
Boiling Point	103°C [5mmHg]
Flash Point	109°C
Color and Appearance	Clear to straw liquid
Density _{25/25°C}	1.068
Refractive Index	1.4091 [25°C]
Min. Purity	95.0%

APPLICATIONS

SiSiB[®] PC6112 can be used to improve the adhesion of RTV silicone sealants to dry or wet surface, and improve its weather resistance.

SiSiB[®] PC6112 can be used to formulate chromate-free, water-borne primers to protect metals from corrosion.

The toxic properties of chromates have caused an environmental demand on

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replacement of the chromium (VI) compound coating processes (chromating). One of the suggested methods is a silane coating applied as a combination of non-functional and organofunctional silanes. The silane coating can reduce underfilm corrosion and to improve the adhesion of the paint systems even compared to chromate layers.

As a bis-silyl functional silane, SiSiB[®] PC6112 has six hydrolyzable groups and are believed to be more crosslinked than tri- and tetra-functional analogs. The enhanced crosslinking leads to better barrier properties in anti-corrosion applications.

PACKING AND STORAGE

SiSiB[®] PC6112 is supplied in 200Kg steel drum or 1000Kg IBC container.

In the unopened original container SiSiB[®] PC6112 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.