

# SiSiB<sup>®</sup> STP23000

## Silane Terminated Polyether Polymer

### INTRODUCTION

SiSiB<sup>®</sup> STP23000 is alkoxy silane terminated polyether polymer. It can be used in moisture curing elastic sealant, elastic structure sealant and sealing coatings. Sealants based on STP23000 not only have excellent adhesion properties, but also have adhesion to broad range of substrates.

Different from polyurethane and silicone system, this formulation has no solvent and isocyanate, as well as no bubbles and odour generated from curing, It is especially suitable for construction industry, transportation industry and general industry application.

### PROPERTIES

Component	Silane Terminated Polyether Polymer
Appearance	Transparent to slight yellow viscus liquid
Reactive terminal groups	Trimethoxysilyl
Viscosity 25°C	18000~28000 cSt
Density 25°C	1.0 g/cm <sup>3</sup>
Boiling point	>250 °C
Flash point	≥ 237 °C
Water solubility/miscibility	Virtually insoluble

### FEATURES

- High activity, Low Modulus
- Good adhesion strength
- Excellent aging and yellowing resistance
- Fast curing, non-tin catalysts used if needed, more eco-friendly
- Excellent water resistance, resistance to chemical corrosion
- Excellent elastic recovery rate
- Excellent storage stability
- Solvent free, odourless, eco-friendly
- Could be blended with other STP polymers

### APPLICATION

SiSiB<sup>®</sup> STP23000 polymer is used as base polymer in elastic sealants, elastic structure sealants, encapsulate adhesives and coatings. The curing mode of the polymer is

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moisture curing; it can be made into a single component or two-component system.

- Low modulus construction sealant
- Transportation industry elastic sealant
- Personal DIY sealant
- Eco-friendly decoration sealant

### PROCESSING

SiSiB<sup>®</sup> STP23000 polymer dissolves readily in standard organic solvents. It is virtually insoluble in aqueous media, and react slowly releasing methanol and ethanol forming inert material. Despite its highly reactive terminal groups, uncatalyzed STP23000 is stable in air for several days. However, its reactivity with water or atmospheric humidity must be taken into account during storage and processing, since the material will slowly starts to condensate.

SiSiB<sup>®</sup> STP23000 polymer can be formulated by conventional methods and mixing processes. Water scavengers should be added to stabilize the formulations against premature curing during compounding or as a result of exposure to moisture during storage, particularly for vinyltrimethoxysilane

### PACKING AND STORAGE

SiSiB<sup>®</sup> STP23000 is supplied in 200Kg steel drum or 1000Kg IBC tote.

In the unopened original container SiSiB<sup>®</sup> STP23000 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: support@SiSiB.com.

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