

# SiSiB<sup>®</sup> STP 31350

## Silane Terminated Polyether Polymer

### INTRODUCTION

SiSiB<sup>®</sup> STP31350 is alkoxy silane terminated polyether polymer. It could be applied in moisture curing elastic sealant, elastic structure sealant and sealing coatings. Sealants based on SiSiB<sup>®</sup> STP31350 not only have excellent adhesion properties, but also have adhesion to broad range of substrates. Different from polyurethane and silicone system, this formulation have no solvent and isocyanate, as well as no bubbles and odor generated from curing. It is especially suitable for construction industry, transportation industry and general industry application.

### PHYSICAL PROPERTIES

Component:	Silane Terminated Polyether
Appearance:	Pale yellow transparent liquid
Boiling point:	>250°C
Gravity:	1.0 g/cm <sup>3</sup>
Viscosity:	35000-55000 mPa · s (25°C)
Flash Point:	≥237°C
Water-Soluble:	Virtually Insoluble
Shelf Life:	≥12 months (25°C/50% RH)

### FEATURES

- High Activity , Medium-High Modulus
- High transparence
- Good adhesion strength and tensile elasticity
- Fast curing , non-tin catalysts used if needed, more eco-friendly
- Excellent aging and yellowing resistance
- Excellent water resistance , resistance to chemical corrosion
- Excellent storage stability
- Solvent free , odorless , eco-friendly

### APPLICATION

STP31350 polymer is used as base polymer in elastic sealants, elastic structure sealants, encapsulate adhesives and coatings. The curing mode of the polymer is moisture curing. It can be made into a single component or two-components system.

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- High Modulus sealant
- Transportation industry elastic sealant
- Personal DIY sealant
- Industrial sealant
- Eco-friendly decoration sealant

### PROCESSING

SiSiB<sup>®</sup> STP31350 polymer can be quickly dissolved in ordinary organic solvents (such as ethanol), but almost insoluble in water. So the raw materials in the formula system are mostly oil-soluble substances. SiSiB<sup>®</sup> STP31350 polymer curing mechanism, silane of both ends react with water forming hydrolysis to generate silanol by using catalyst, Silanol is crosslinked with catalyst to form a siloxane bond with network structure. Water is a very important factor during the storage and processing. In order to stabilize the processing and storage, a certain amount of chemical water removal agent is necessary. We suggest to using vinyl trimethoxysilane, SiSiB PC6110. Conventional mixing process can be suitable for SiSiB<sup>®</sup> STP31350 POLYMER. For more technical support, please consult our technical engineers.

### PACKING AND STORAGE

SiSiB<sup>®</sup> STP31350 is supplied in 200Kg steel drum or 1000Kg IBC tote.

In the unopened original container SiSiB<sup>®</sup> STP31350 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: [support@SiSiB.com](mailto:support@SiSiB.com).