

# SiSiB<sup>®</sup> STP81050

## Silane Terminated Polyether Polymer

### INTRODUCTION

SiSiB<sup>®</sup> STP81050 is an alkoxy silane terminated polyether polymer. It can be used in moisture curing elastic sealant, elastic structure sealant and sealing coatings to achieve excellent adhesion to broad range of substrates.

SiSiB<sup>®</sup> STP81050 based system is free of solvent, isocyanate, bubbles and odor during curing, which is quite different from polyurethane and silicone system. It is especially suitable for construction industry, transportation industry and general industry application.

### PROPERTIES

Component:	Silane Terminated Polyether Polymer
Appearance:	Slight yellow liquid
Viscosity 25°C:	4000~6000cSt
Density 25°C:	1.0g/cm <sup>3</sup>
Boiling point:	>250°C
Flash point:	>237°C
Water solubility:	Virtually insoluble

### FEATURES

- High activity, High hardness, Low shrink
- Good adhesion strength and tensile elasticity
- Fast curing, tin catalysts free
- Excellent aging and yellowing resistance
- Superb water resistance, chemical corrosion resistance
- Solvent free, odorless , eco-friendly
- Lower viscosity, may adding more powder

### APPLICATION

SiSiB<sup>®</sup> STP81050 polymer can be used as base polymer in elastic sealants, elastic structure sealants, encapsulate adhesives and coatings by moisture curing. It is suitable for both single component and two-component system.

- Transportation industry elastic sealant
- Waterproofing coating

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- Personal DIY sealant
- High hardness sewing sealant
- Eco-friendly decoration sealant

### PROCESSING

SiSiB<sup>®</sup> STP81050 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 SiSiB<sup>®</sup> STP81050 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> STP81050 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. We suggest using SiSiB<sup>®</sup> PC6110 vinyltrimethoxysilane.

### PACKING AND STORAGE

SiSiB<sup>®</sup> STP81050 is supplied in 200Kg steel drum or 1000Kg IBC tote.

In the unopened original container SiSiB<sup>®</sup> STP81050 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).