SiSiB® STP31900

Silane Terminated Polyether Polymer

Introduction

SiSiB® STP31900 is 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® STP31900 based system is free of solvent, isocyanate, bubbles and odour during curing, which is quite different from polyurethane and silicone system. It is especially suitable for construction industry, transportation industry and general industry application.

Physical Properties

Component:	Silane Terminated Polyether Polymer
Appearance:	Transparent to yellowish viscous liquid
Viscosity 25°C:	9000~15000 mPa·s
Density 25°C:	1.0 g/cm^3
Boiling point:	>250°C
Flash point:	>237°C
Water solubility/miscibility	Virtually insoluble

Features

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

Application

SiSiB® STP31900 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.

- ☐ High Modulus sealant

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- ☐ Transportation industry elastic sealant
- ☐ Personal DIY sealant
- ☐ Eco-friendly decoration sealant

Processing

SiSiB® STP39100 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® STP39100 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® STP39100 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® STP39100 is supplied in 200Kg steel drum or 1000Kg IBC tote.

In the unopened original container SiSiB® STP39100 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.

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