

SiSiB[®] STP31020

Silane Terminated Polyether Polymer

INTRODUCTION

SiSiB[®] STP31020 is a trimethoxy silane terminated polyether polymer. It could be applied in moisture curing elastic sealant, elastic structure sealant and sealing coatings. Sealants based on STP31020 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 odour generated from curing. It is especially suitable for construction industry, transportation industry and general industry application.

PROPERTIES

Component:	Silane Terminated Polyether Polymer
Polymer	Polypropylene glycol
Reactive Terminal Groups:	Trimethoxysilyl
CAS No.:	216597-12-5
Viscosity 25°C:	32000~42000cSt
Density 25°C:	1.005
Boiling point	>250°C
Melting point	< 0°C
Flash point:	> 237°C
Volatiles:	Max. 1%
Water solubility/miscibility	Virtually insoluble

FEATURES

- ☐ High activity, Low - medium Modulus
- ☐ Moderate viscosity allows for broad formulation latitude in sealants and adhesives
- ☐ High transparency
- ☐ 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 and solvent resistance
- ☐ Excellent elastic recovery rate
- ☐ Excellent storage stability
- ☐ Solvent free, odourless , eco-friendly
- ☐ Could be blended with other STP polymers

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APPLICATION

SiSiB[®] STP31020 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-component system.

- ☐ Transportation industry sealant
- ☐ Medium, Low modulus construction sealant
- ☐ Transparent encapsulate adhesive
- ☐ Personal DIY sealant
- ☐ Eco-friendly decoration sealant

PROCESSING

SiSiB[®] STP31020 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 STP31020 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[®] STP31020 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[®] STP31020 is supplied in 200Kg steel drum or 1000Kg IBC tote.

In the unopened original container SiSiB[®] STP31020 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.