SiSiB® STP20380

Silane Terminated Polyether Polymer

Introduction

SiSiB® STP20380 is alkoxy silane terminated polyether polymer. It could be used in moisture curing elastic sealant, elastic structure sealant and sealing coatings to achieve excellent adhesion to various substrates.

SiSiB® STP20380 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.

Physical Properties

Component:	Silane Terminated Polyether Polymer
Appearance:	Yellow Liquid
Boiling point:	>250°C
Density 25°C:	1.00g/cm^3
Viscosity 25°C:	6000~10000cP
Flash point:	> 237°C
Water solubility/miscibility	Virtually insoluble

Features

- ☐ Moderate Activity , Moderate Modulus
- ☐ Good adhesion strength
- ☐ Fast curing , non-tin catalysts used if needed
- ☐ Excellent anti-aging, anti-yellowing property
- ☐ Excellent water resistance, chemical corrosion resistance
- ☐ Excellent elastic recovery rate
- ☐ Excellent storage stability
- ☐ Solvent free, odorless, eco-friendly
- ☐ Could be blended with other STP polymers

Application

SiSiB® STP20380 polymer can be 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.

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SiSiB® STP20380

Silane Terminated Polyether Polymer

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

Processing

SiSiB® STP20380 polymer dissolves readily in standard organic solvents. It is virtually insoluble in water. Despite its highly reactive terminal groups, uncatalyzed STP20380 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® STP20380 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® STP20380 is supplied in 200Kg steel drum or 1000Kg IBC tote.

In the unopened original container SiSiB® STP20380 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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