

SiSiB[®] OP3000

Epoxy Functional Silane Oligomer

INTRODUCTION

SiSiB[®] OP3000 is an epoxy functional silane oligomer that may be considered for use as an adhesion promoter or binder in polysulfide, urethane, epoxy and acrylic caulks, sealants, adhesives and coatings. It is a polyfunctional structure bearing gamma-glycidoxy groups, which is an excellent candidate to consider to reduce emissions of methanol upon hydrolysis of the material as compared with monomeric epoxy silanes. It typically aids adhesion promotion and crosslinking of water borne or solvent based coatings as well as dispersion of metallic pigments in water borne systems.

TYPICAL PHYSICAL PROPERTIES

| | |
|------------------------|---|
| Appearance | Colorless or pale yellow transparent liquid |
| Colour (Pt/Co) | Max.30 |
| Density 25°C | 1.103-1.203 |
| Refractive Index 20°C | 1.446-1.456 |
| Viscosity (25°C,cps) | 30-50 |
| Epoxy Value (mol/100g) | 0.44-0.5 |
| Flash Point | >100°C |
| Moisture | Max.0.05% |

APPLICATIONS

The gamma-glycidoxy propyl epoxide ring available in SiSiB[®] OP3000 can react with many different organic functionalities, while the alkoxy silane groups still available on the oligomeric structure typically bond strongly to inorganic substrates. The hydrolytic stability of SiSiB[®] OP3000 can help provide better shelf life than normal monomeric silanes, thus providing better durability in solvent borne systems. Specific hydrolysis conditions can be applied to hydrolyze the material so SiSiB[®] OP3000 may be considered for use in waterborne systems.

It can help improve bending resistance of 2K HS epoxy primer. It can minimize impact of accelerating catalyst on bending resistance.

PACKING AND STORAGE

It is supplied in 25kg plastic drum or 200kg steel drum.

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It should be stored in a cool and dry place out of direct sunlight.

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: silanes@SiSiB.com.