SILANOX™ 560 EPOXY SILANE

Glycidoxypropyltrimethoxysilane

CAS Number: 2530-83-8
Chemical Formula: $C_9H_{20}O_5Si$

PRODUCT DESCRIPTION

SILANOX™ 560 Epoxy Silane is a bifunctional organosilane coupling agent designed to improve adhesion between inorganic substrates and organic polymers. It contains epoxy and methoxysilyl functional groups that promote interfacial bonding, enhance composite strength and improve the dispersion of inorganic fillers. The product is soluble in various organic solvents.

KEY FEATURES

- Epoxy and methoxysilyl functional reactivity
- Improves adhesion between inorganic and organic materials
- Enhances wet and dry tensile and flexural strength
- Improves composite strength and modulus
- Supports improved compressive strength
- Enhances filler wetting and dispersion
- Improves surface appearance and material compatibility

APPLICATIONS

- Adhesion promotion between inorganic fillers and organic resins
- Surface modification of glass, metals and mineral fillers
- Adhesives and sealant formulations
- Protective and industrial coatings
- Polymer composites and reinforced materials
- Surface treatment of inorganic particles

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LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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This document is subject to revision without notice as new data becomes available.

TECHNICAL SUPPORT
+61294103317
info@chemport.com.au

Suite 2.08
32 Delhi Road
Macquarie Park
NSW 2113
Australia

chemport.com.au

PRODUCT SPECIFICATIONS

PARAMETER	SPECIFICATION
Physical Form	Yellow transparent liquid
Density (20°C)	1.130–1.170 g/cm³
Refractive Index (25°C)	1.4450–1.4650
Viscosity (25°C)	40–100 cSt

PACKAGING

Available in 200 kg steel drums and 1,000 kg IBCs. Other packaging options may be available upon request.

STORAGE & HANDLING

Store in a cool, dry and well-ventilated area. Keep containers tightly sealed and protected from moisture, rain and direct sunlight.
Shelf life is 12 months when stored under recommended conditions.

SAFETY

Handle in accordance with good industrial hygiene practices. Avoid contact with skin and eyes and inhalation of vapours. Use appropriate personal protective equipment during handling. Refer to the current Safety Data Sheet (SDS) for detailed safety, handling and disposal information.