

struktol®



Silane Coupling Agents

Coupling Together For Success

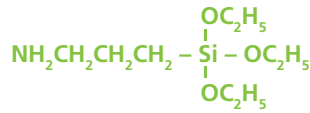


Amino Silane

Acrylic / Epoxy / Melamine / Nitrile / Nylon / Phenolic / PVC / Urethane

SCA 1100

gamma-Aminopropyltriethoxysilane
 $C_9H_{23}NO_3Si$
 $(C_2H_5O)_3SiC_3H_6NH_2$



STRUKTOL® SCA 1100 is a versatile coupling agent for many thermoset and thermoplastic resins with glass and mineral fillers. It provides a superior bond between inorganic substrates and organic polymers. It can be used in adhesives, sealants, coatings, pigment dispersions, ink, metallic resins and concrete.

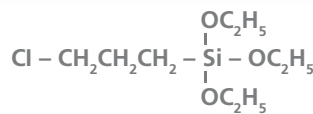


Chloropropyl

ABS / Elastomer / Epoxy / Polyolefin / Urethane

SCA 930

3-Chloropropyltriethoxysilane
 $C_9H_{21}O_3ClSi$



STRUKTOL® SCA 930 is a general rubber goods processing aid used to treat and couple the inorganic fillers in halogenated rubber so as to improve physical and mechanical properties.

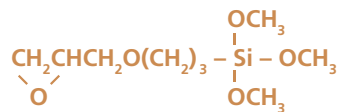


Epoxy

Acrylic / Epoxy / Polyester / Polysulfide / Urethane

SCA 960

gamma-Glycidoxypropyltrimethoxysilane
 $C_9H_{20}O_5Si$



STRUKTOL® SCA 960 is an epoxy-functional silane used as a coupling agent for thermoset elastomers with glass or mineral fillers, or for epoxy composites. It is used primarily as an adhesion-promoting additive in waterborne systems.

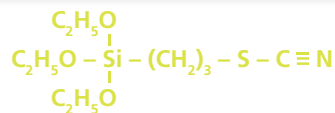


Other

Elastomers

SCA 984

3-Thiocyanatopropyltriethoxysilane
 $C_{10}H_{21}NO_3SSi$
 $(C_2H_5O)_3Si-(CH_2)_3-SCN$



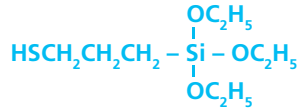
STRUKTOL® SCA 984 is a coupling agent used in mechanical rubber goods or mineral filled surface treatments.

Providing *Intelligent Additive Solutions* for rubber and plastic polymers and compounds,



Mercapto Elastomers

SCA 989
3-Mercaptopropyltriethoxysilane
 $C_9H_{22}O_3SSi$

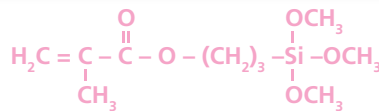


STRUKTOL® SCA 989 is a coupling agent for rubber elastomers and polysulfide adhesives, as well as thermoplastic and thermoset resins.



Methacryloxy Acrylic / EVA / Polyester / Polyolefin

SCA 974
gamma-Methacryloxypropyltrimethoxysilane
 $C_{10}H_{20}O_5Si$

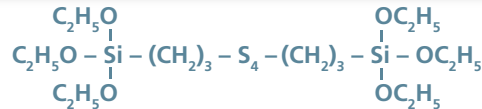


STRUKTOL® SCA 974 is used as an adhesion promoter at organic/inorganic interfaces and also a coupling agent for unsaturated polyester and fiberglass composites. It is used to improve the physical and electrical properties when under exposure to moisture and/or heat.

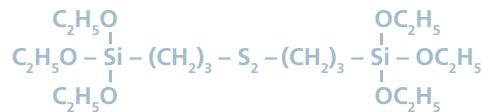


Sulfides Elastomers

SCA 98
Bis(3-Triethoxysilylpropyl)tetrasulfide
 $C_{18}H_{42}O_6S_4Si_2$



SCA 985
Bis(3-Triethoxysilylpropyl)disulfide
 $C_{18}H_{42}O_6S_2Si_2$

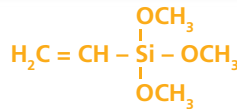


STRUKTOL® SCA 98 and SCA 985 are coupling agents used in highly dynamic elastomer applications, including tires to improve reinforcing capabilities. These silanes will improve abrasion, lower hysteresis, improve adhesion and processing.



Vinyl Polyester Resin / Thermoplastic Olefin

SCA 971
Vinyltrimethoxysilane
 $C_5H_{12}O_3Si$



SCA 972
Tris(methoxyethoxy)ethenylsilane
 $C_{11}H_{24}O_6Si$



STRUKTOL® SCA 971 and SCA 972 are coupling agents that promote adhesion of a polymer to an inorganic substrate or filler. Results are improved wet and dry physical properties.

Struktol products are designed to meet the challenges and exacting demands of our customers.

Elastomers

Functional Groups	Amino SCA 1100	Chloropropyl SCA 930	Epoxy SCA 960	Other SCA 984	Mercapto SCA 989	Methacryloxy SCA 974	Sulfide SCA 98 SCA 985	Vinyl SCA 971 SCA 972
Butyl	•		•					
Epichlorohydrin			•	•	•		•	
EPDM Sulfur	•			•	•	•	•	•
EPR Peroxide				•	•	•		•
NR/Polyisoprene				•	•		•	
Nitrile Rubber	•		•	•	•		•	
Polybutadiene				•	•			
Polychloroprene	•	•		•	•		•	
SBR			•	•	•		•	

Thermoplastics

Functional Groups	Amino SCA 1100	Epoxy SCA 960	Methacryloxy SCA 974	Vinyl SCA 971 SCA 972
ABS	•	•	•	
Nylon, PBT, PET	•	•		
PVC	•	•		
Polycarbonate	•	•	•	
Polyethylene	•	•	•	•
Polypropylene	•	•	•	•
Polystyrene	•	•	•	



Product Forms

All products are in liquid form. Some are available in microbead, pastille or powder. For more information, call **330-928-5188** or visit www.struktol.com to view the Tech Data Sheets online.

Thermoset Resins

Functional Groups	Amino SCA 1100	Epoxy SCA 960	Methacryloxy SCA 974	Vinyl SCA 971 SCA 972
Epoxy	•			
Melamine	•	•		
Phenol	•	•		
Polymide	•	•		•
Unsaturated Polyester		•	•	
Urethane	•	•		



Silane Coupling Agents

In today's global marketplace, you need to produce parts faster, with improved performance qualities – all at a total lower cost. Struktol Silane Coupling Agents can open a world of new opportunities to enhance your existing products and help you realize increased profits.

Struktol's Silane Coupling Agents enable inorganic materials to bond to organic materials to improve the mechanical strength and physical properties in a wide variety of elastomers, thermoplastic and thermoset resins. This extensive line of products can improve functionality, quality and performance values.



Realize More with Struktol

- Lower compound viscosity
- Higher compound modulus
- Improved abrasion resistance
- Lower hysteresis
- Improved compression set
- Improved rolling resistance in tire tread compounds
- Improved dispersibility
- Faster incorporation
- Globally available from Struktol
- Custom packaging available
- Wide selection of user friendly product forms

*At Struktol, we've built a reputation for unique, dynamic and cost-effective solutions. Let us help your business open a world of new opportunities. Call us today at **330-928-5188** or visit us on the web at **www.struktol.com**.*

Struktol Company of America

Struktol Company of America is a member of the Schill & Seilacher family of companies, with representation in over 100 countries around the world. A global organization with over a century of specialty chemical expertise, Schill & Seilacher markets most of their polymer processing products under the brand name STRUKTOL® – a name that has become synonymous with both quality and performance. Struktol chemicals are found in plastics and rubber as well as man-made fibers, textiles and leather, and paper products.

The Struktol approach to the rubber and plastics additive business is by no means typical or ordinary. Chemistry is at the heart of everything we do. Providing Intelligent Additive Solutions, Struktol products are designed to meet the challenges and exacting demands of our customers. Our technical specialists, R&D chemists and compound laboratory are dedicated to creating innovative solutions for the ever-changing polymer industry – solutions that keep you ahead of your competition with increased productivity, better quality parts and lower overall cost. In addition to premium product performance, Struktol Customer Service initiatives have become the industry benchmark.



Struktol Company of America

201 E. Steels Corners Road
P.O. Box 1649
Stow, OH 44224-0649
330-928-5188
800-327-8649
Fax: 330-928-8726
Email: customerservice@struktol.com

Struktol Canada, Limited

2 Campbell Drive
Suite 206
Uxbridge, Ontario
Canada L9P 1H6
416-286-4040
Fax: 416-286-4043
Email: strukcansales@bellnet.ca



www.struktol.com