



SILICONES

ADDITIVES

struksilon

SOLUTIONS | TAILORMADE | WORLDWIDE

FROM HUMBLE ROOTS IN LEATHER PROCESSING CHEMICALS ...



**SCHILL+SEILACHER'S STORY BEGAN IN 1877, WHEN KARL SCHILL
AND CHRISTOPH SEILACHER STARTED MANUFACTURING CHEMICALS
FOR LEATHER PROCESSING IN HEILBRONN, GERMANY.**

IN 1925 SCHILL+SEILACHER OPENED A SECOND PRODUCTION SITE

1877

Following the Second World War, Schill+Seilacher moved its Heilbronn operation to Böblingen, a suburb of Stuttgart. Although both locations Hamburg and Böblingen are sharing the same name, they are serving different industries and working independently of each other. Schill+Seilacher ventured into the North American market in 1979 with the establishment of Struktol® Company of America. SCA is located at the heart of the American tire industry, just outside Akron, Ohio, and majorly supplies the plastic, rubber and tire industries. Schill+Seilacher Chemie GmbH, situated on the banks of the Elbe just south of Dresden was acquired in the early 1990s and serves as both a production and research facility for silicone based chemistry.

SNS Nanotech in Hudson, Ohio, specializes in developing complex nanofiber matrices and is the youngest member of the Schill+Seilacher Group. Their proprietary technology enables the fabrication of self-supporting mats that can entrap particles within a nanofiber matrix or encapsulate them within individual nanofibers.

WORLDWIDE

... TO A GLOBAL PLAYER IN THE PRODUCTION OF INDUSTRIAL PROCESS ADDITIVES.

IN HAMBURG TO CATER TO THE EXPANDING NEEDS OF ITS GROWING CUSTOMER BASE AND SECURE BETTER ACCESS TO INTERNATIONAL MARKETS THROUGH THE CITY'S BUSTLING PORT.

ISO 9001: Our quality guarantee

The high quality standard of our products is guaranteed by our certified quality management system (ISO 9001), which integrates our highly qualified application experts, state of the art laboratories and testing equipment, and modern production methods into an effective and continually improving team.

ISO 14001: Our commitment to the environment

Our commitment to reducing waste and managing energy consumption efficiently has been at the core of our business for many years. By helping us work more efficiently and cost effective, our ISO 14001 certification promises better products through environmental responsibility.

SCHILL + SEILACHER "STRUKTOL" GMBH AT A GLANCE

RUBBER ADDITIVES

ANTIFOAMS

POLYDIS

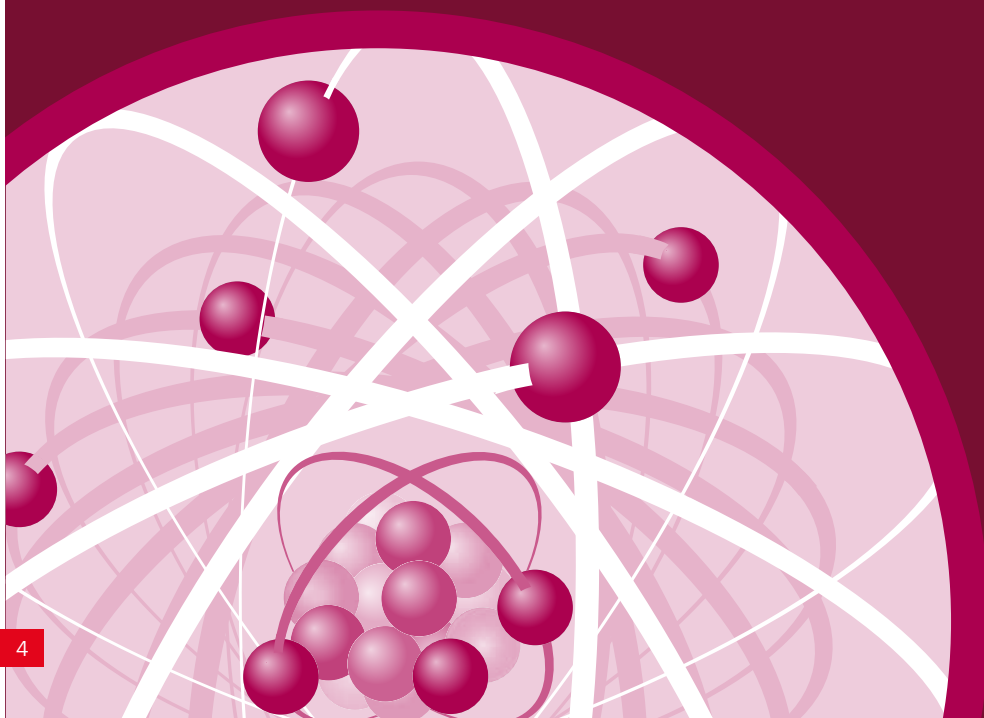
LATEX ADDITIVES

SILICONES

RELEASE AGENTS

TABLE OF CONTENTS

Amino silicone fluids	06-09	Silicone fluid emulsions	25
Silicone formulations for textile and fiber	10-11	Silicones for construction industry	26
Silicones for fiber fill	12-13	Wetting agents	27
Silicones for hydrophilic applications	14-15	Reactive silicone oligomers and plasticizers	28-29
Silicones for textile and leather industry	16-17	Silanes and silicones for paint	30-33
Silicone antifoams	18-19		
Silicone slip additives, lubricants, coatings	20-23		





SILICONE ADDITIVES

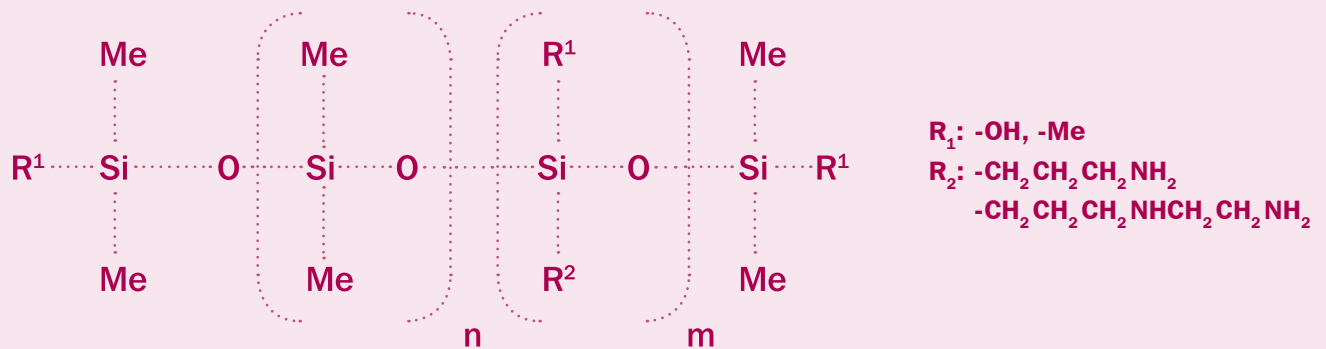
Wherever classic products reach their physical limits, silicones are often able to provide at least an alternative solution. Silicones are particularly advantageous because of their high temperature stability, excellent lubrication properties, soft-touch and excellent hydrophilic or hydrophobic qualities.

Schill+Seilacher an acclaimed producer of additives and special auxiliaries is able to offer and produce customized products for a lot of applications. The use of Silicones as fluids, emulsions, dispersions and compounds offers cost efficient solutions, helping to minimize the use of chemical substances and optimizing the status to meet specific requirements. We respond proactively to individual demands and wishes of customers, by providing first class advice and technical support, also on-side locally.

Our products fulfill the high quality demands of silicones, delivered to different industries, e. g. textile, leather, rubber, paint & coating and various other fields.



AMINO SILICONE FLUIDS



AMINO SILOXANES	AMINE NUMBER	VISCOSITY (mPa.s)	REACTIVITY
Struksilon F 561	0,12	3000	reactive
Struksilon F 531	0,31	1000	reactive
Struksilon F 538	0,24	250	reactive
Struksilon F 575	0,60	1000	reactive
Struksilon F 532	0,90	1000	reactive
Struksilon F 510	0,22	500	reactive
Struksilon F 571	0,18	500	non-reactive
Struksilon F 589	0,60	1000	non-reactive
Struksilon F 533	1,25	30	non-reactive
Struktol VP 5396	2,50	150	non-reactive
Struktol VP 5421	0,12	300	low-reactive

In the table above are mentioned different amino fluids. These are already available grades. Moreover we can construct to the customer's desire. Please ask for your special amino fluid.

SUGGESTED FORMULATION – MICROEMULSION Ingredients in parts



1	7,5	Isotridecanol ethoxylate (5EO)
2	2,0	Butyldiglykol
3	15,0	Struksilon F 575
4	75,3	Water
5	0,2	Acetic Acid

Ingredient **1** to **3** are thoroughly mixed with each other.
 Then the mixture of **4** and **5** is added in portions until all ingredients are combined.
 Please mix well until the formulation is homogenous.

APPLICATIONS

TEXTILE	CONSTRUCTION	COATING	LEATHER	CAR WASH	POLISH	HYDROPHOBIZING	WOOD PROTECTION
F 531	F 561	VP 5396	F 561	F 589	F 571	F 561	F 533
F 538	F 510	F 538	F 532	F 533	F 589	F 575	F 532
F 561	VP 5421	F 575		F 571	F 561	F 533	VP 5396
F 510							

EMULSIONS BASED ON AMINO FUNCTIONAL SILICONE FLUIDS

In most cases amino siloxanes are formulated into either micro or macro emulsions. As an emulsion the non-water soluble amino siloxane can be incorporated into water based systems. The difference between micro and macro emulsion is the particle size and the content of stabilizing detergent.

Micro emulsions can be made without big equipment, only by stirring. The high amount of detergent cares for very small particle sizes – sometimes even below 50 nm.

To formulate a macro emulsion high shear forces are necessary. The amount of stabilizing detergent is small. Depending on the formulation the particle size of macro emulsions ranges between 200 to 1000 nm. For the application on textile fabric macro emulsions are best choice. They consist mainly of active ingredient and contain minimal detergent.

APPLICATIONS

TEXTILE	CONSTRUCTION	COATING	LEATHER	CAR WASH	POLISH	HYDROPHOBIZING	WOOD PROTECTION
FA	F 84	FB	FB	FB	FB	FB	FA
FB		F 90	F 39	FA	F 39	F 90	F 90
F 47			F 84	F 39			F 84
F 90							
F 84							
F 39							

MACRO EMULSIONS OF AMINO FLUID

Struksilon FA

· Non-ionic, pH 5

Active Content: 40 %

- Standard softener
- Excellent touch

Struksilon FB

· Non-ionic, pH 5

Active Content: 50 %

- Standard softener concentrated
- Excellent touch

Struksilon F 47

· Cationic, pH 6

Active Content: 40 %

- Softener
- High exhausting properties

MICRO EMULSIONS OF AMINO FLUID

Struksilon F 84

· Non-ionic, pH 5

Active Content: 35 %

- Softener
- Excellent gloss properties

Struksilon F 39

· Non-ionic, pH 5

Active Content: 22 %

- Softener
- Excellent gloss properties

Struksilon F 90

· Non-ionic, pH 7,5

Active Content: 80 %

- Softener
- Excellent gloss properties

EMULSIONS FOR TEXTILE APPLICATIONS (HYDROPHOBIC EFFECT)

Struksilon FA

Active Content: 40 %

- Very efficient hydrophobic softener for textiles

Struksilon FB

Active Content: 50 %

- Very efficient hydrophobic softener for textiles

Struksilon 72

Active Content: 35 %

- Simple softener
- Easy to use
- With conditioning effect

Struksilon F 47

Active Content: 40 %

- Cationic softener with high exhausting properties



EMULSIONS FOR TEXTILE APPLICATIONS (HYDROPHOBIC EFFECT)



Struksilon VP 5444

Active Content: 5 %

- Emulsion with strong hydrophobic effect
- Extra ordinary soft
- Ready for use

Struksilon VP 5446

Active Content: 30 %

- Emulsion with strong hydrophobic effect
- Extra ordinary soft
- Concentrate

SILICONES FOR SYNTHETIC FIBER FILL MATERIALS

Synthetic fibers are mostly made from synthesized polymers, e. g. mainly polyester, some polyamide or polypropylene. These fibers are used as filling or insulating material for pillows, cushions, winter garments as well as in quilting applications. Silicones dramatically increase the performance of these fibers by giving better touch, bulkiness and recovery.

ONE COMPONENT SYSTEMS

Struksilon FI 43

· Cationic emulsified

Active Content: 50 %

- Smooth
- Dry grip
- Increased bulkiness

Struksilon FI 53

· Non-ionic emulsified

Active Content: 50 %

- Silky
- Very smooth
- Excellent bulkiness





THREE COMPONENT SYSTEMS

Struksilon F 57

· Emulsion of an aminoorgano silicone polymer

Active Content: 40 %

Struksilon F 58

· Emulsion of a silicone polymer

Active Content: 40 %

Struksilon 69

· Catalyst

Active Content: 100 %

- Silky
- Smooth
- Excellent bulkiness

HYDROPHILIC SILICONE SOFTENER

In textile and fiber industry, silicones positively boost the touch. In some applications, e. g. terry towels, undergarments and sportswear a strong hydrophilicity is needed. Struksilon silicones can provide this effect and help to improve the wearability of clothing.



	SOLID CONTENT	HYDROPHILIC PROPERTY	WATER SOLUBILITY	PERMANENCE	SOFT TOUCH	SLIPPERY
Struksilon 8431	100 %	3	✓	2	2	1
Struksilon 8432	100 %	2	✓	3	3	1
Struksilon 8434	100 %	1	-	3	3	2
Struksilon 8371	100 %	5	✓	1	1	1
Struksilon 8372	100 %	3	-	1	1	2
Struksilon VP 5417	80 %	2	✓	3	4	3
Struktol VP 5523	70 %	5	✓	3	4	4

1: ACCEPTABLE 2: EFFECTUAL 3: GOOD 4: VERY GOOD 5: EXTRAORDINARY

GUIDE FORMULATION TO PREPARE A MICROEMULSION WITH 25 % ACTIVE CONTENT



POSITION	PARTS	PRODUCT	PRODUCER
1	10	Struksilon 8434 / 8372	Schill+Seilacher
2	1,3	Propylene glycol¹⁾	Chemical trader
3	2,7	Genapol X050	Clariant
4	26	demineralized Water	

1) Instead of Propylene glycol other glycols such as Di-propylene glycol, Butyl-di-glycol, Glycerine, PEG 400 and so on could be used.

For preparation at first propylene glycol is added to position 1 and stirred for about 10 minutes, in the next step surfactant is added and stirred for another 10 minutes, after that water can slowly be added by stirring continuously. The result is a microemulsion intended for immediate use, another biocide has to be added.

SILICONES FOR TEXTILE AND LEATHER INDUSTRY

Beyond amino siloxanes and their emulsions, there are other siloxanes, organic modified, non-modified and/or emulsified, which are excellent additives for textile applications.

Struksilon E 35	Active Content: 35 %	<ul style="list-style-type: none">■ Silicone fluid emulsion based on 350 cst. Silicone fluid■ Slip additive for fibers and easy ironing agent■ Also available with rust inhibitor (Struksilon E 35 R)
Struksilon VP 5348	Active Content: 32 %	<ul style="list-style-type: none">■ Emulsion of organic modified silicone■ Hydrophobic softener, non yellowing
Struksilon 72	Active Content: 35 %	<ul style="list-style-type: none">■ Silicone polymer emulsion based on high viscous fluids■ Slip additive and lubricant for fibers■ Also available with rust inhibitor (Struksilon E 72 R)
Struksilon 8307	Active Content: 100 %	<ul style="list-style-type: none">■ Organo-functional silicone based on polyglycol■ Slip, flow and leveling agent, increased scratch■ Resistance for coated surfaces

SPECIALITIES

VP 5444	Waterbased liquid	<ul style="list-style-type: none">■ Water based emulsions based on organic modified silicone■ Strong water repellency and soft touch with permanence on natural fibers and fabrics■ Liquid
VP 5487	Waterbased paste	<ul style="list-style-type: none">■ Water based emulsions based on organic modified silicone■ Strong water repellency and soft touch with permanence■ Easy applicable paste

SPECIAL LEATHER PRODUCTS



Leather is a precious, natural material. It's needed for clothing, furniture, shoes, handbags and car seats. Nowadays also leather imitation materials as e. g. PU provide us with the advantages of leather.

To improve the properties of leather in terms of touch and hydrophobicity the following products are recommended.

Struktol VP 5233

Active Content: 50 %

- Emulsion of epoxy functional silicone
- Hydrophobic agent for leather and synthetic leather

Struksilon 8403

Active Content: 100 %

- Epoxy functional silicone fluid
- Hydrophobic agent for leather, usually combined with natural/organic oils and hydrophobic emulsifiers

Struksilon 28

Active Content: 100 %

- Fatty acid ester organo-functional silicone polymer
- Hydrophobic agent leather, used in wet-treatment, provide softening effect

Struktol VP 5446

Active Content: 30 %

- Emulsion of an organo functional silicone
- Strong water repellent with excellent touch modification and permanence

Struktol VP 5454

Active Content: 85 %

- Self-emulsifying silicone paste

NON AQUEOUS AND AQUEOUS ANTIFOAMS AGENTS

Always where different product streams come together or different formulations are agitated, foam can occur. Most often these foams are not desired, they can disturb the performance or decrease capacities significantly. To protect systems from building foam or destroy already built foam, antifoams are used. The below products represent our silicone antifoams portfolio.

ANTIFOAM DISPERSIONS/EMULSIONS

Struksilon D 52	Active Content: 20 %	<ul style="list-style-type: none">■ Dilution stable, high efficient, temperature stable■ Textile and leather application, industrial field
Struksilon DA	Active Content: 45 %	<ul style="list-style-type: none">■ Concentrated version, easy to dilute■ Textile application
Struksilon D 85	Active Content: 45 %	<ul style="list-style-type: none">■ Concentrated dispersion, easy to dilute■ General applications
Struksilon D 420	Active Content: 30 %	<ul style="list-style-type: none">■ Cosmetics, e. g. toothpaste, lotions, soap, cleaners
Struktol VP 5382	Active Content: 20 %	<ul style="list-style-type: none">■ Highly effective, no contamination in inline-systems, formulated with a low silicone peak, especially for foaming media in complicated machinery



Struksilon 5371

Active Content: 20 %

- Gas sweetening process, high efficient, especially for gases with high loads of sulfur

Struksilon 5530

Active Content: 15 %

- Gas sweetening process, newest development soluble in hot process water effective in various media
- Very good dispersible antifoam emulsion, extreme low contamination in inline systems, very good allocation, therefor highly effective

SILICONE COMPOUNDS

Struksilon DZ

Active Content: 100 %

- Cleaning products, textile and leather and general industrial application
- Viscosity (mPas): 2000

Struksilon DE

Active Content: 100 %

- Viscosity (mPas): 1500, compound for the use in cosmetics

SLIP ADDITIVES + COATINGS FOR EPDM RUBBER PROFILES AND O-RINGS

The surface of rubber articles such as profiles most often is blunt and non gliding. This makes profiles hard to assemble or to get in place. Slip additives provide the gliding that is needed to handle rubber profiles easily.

The standard slip additives are emulsions out of particular silicone fluids and special detergents. The silicone fluids provide gliding, the detergents care for good wetting. All detergents in Struksilon slip additives cause no stress corrosion. Thus sensitive polycarbonate, macrolon glasses can also be used in assembling.

COATINGS FOR EPDM PROFILES

Struksilon P 128

Active Content: 35 %

- Mixture of high + low viscosity particular silicones, special detergents
- Concentrate with strong wettability
- Compatible with PMMA + PC

Struksilon P 144

Active Content: 35 %

- High viscosity particular silicone, special detergents
- Concentrate
- Compatible with PMMA + PC

Struksilon P 125

Active Content: 20 %

- Mixture of high + low viscosity particular silicones, special detergents
- Ready for use
- Compatible with PMMA + PC





There are also sophisticated applications, such as assembling “Bio” or “Active” glass. These glasses have a special self cleaning surface. This surface could be disturbed by migrating silicone fluids, related to standard slip additives. Slip polymers such as Struktol VP 5289 or VP 5379, are the best choice for these applications. Slip polymers build up a long lasting slip coating on the surface of rubber profiles without creation of any disturbance.

PERMANENT PROFILE COATING

Struktol VP 5289

Active Content: 100 %

- Slip polymer
- Long lasting coating
- Excellent wettability
- Compatible with PMMA + PC

Struktol VP 5379

Active Content: 20 %

- Slip polymer
- Long lasting coating on basis of VP 5289
- Water based emulsion
- Compatible with PMMA + PC

COATINGS FOR O-RINGS, GASKETS AND ROLLERS



O-rings and gaskets are made of rubber formulations or special plastics. These materials most often are blunt and non gliding. Coatings can effectively modify the surface to get desired properties. For example, treated O-rings and gaskets become slick, slippery and can easily be assembled. The coating can also provide a protection against environmental impacts. Special coatings on rollers for printers or photocopiers can help in printing process to transport papers and pigments cleanly. These are only some aspects that can be achieved by coating rubber articles.

Struktol VP 5204

- Reactive polymer emulsion
- Permanent coating and slip
- Glossy appearance

Struktol VP 5307

- Reactive polymer emulsion
- Water based emulsion
- Mat appearance
- Fit-up aid

Struksilon K 502

- Silicone modified acrylic copolymer
- Shiny appearance

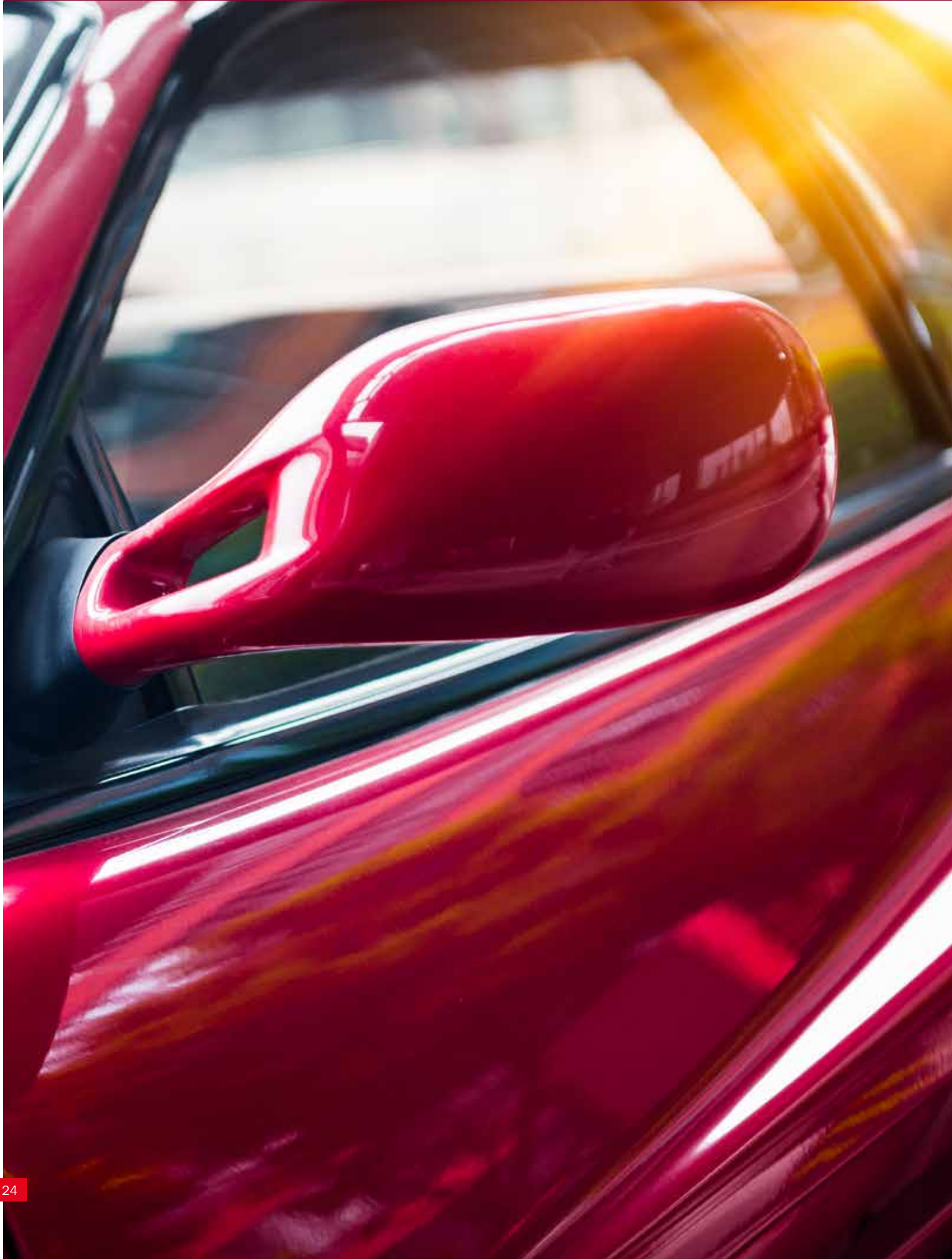
Struksilon K 511

- Silicone modified acrylic copolymer
- Shiny appearance
- Increased slippery

Struksilon K 512

- Silicone modified acrylic copolymer
- Mat appearance
- Fast crosslinking





EMULSIONS OF POLYDIMETHYLSILOXANES



Silicone fluids and their emulsions are used in a wide range of applications.

The advantage of a silicone fluid emulsions is the exact dosage of the silicone fluid and the dilution stability. An easy adjustment for an recommended concentration can be done, simply by adding water to the emulsion prior to application. All emulsions have excellent wetting and spreading properties.

STUKSILON	%	VISCOSITY OF SILICONE (mPa.s)	REACTIVE	RELEASE	RELEASE + PROTECT	POLISH	NON-IRONING	TEXTILE
E 35	35	350		✓		✓	✓	
E 35 R	35	350		✓	✓			
E 60	60	350		✓		✓	✓	✓
E 50	50	1000		✓		✓		✓
90	40	2000		✓		✓		✓
72	35	500.000	✓	✓				
E 72 R	35	500.000	✓	✓	✓			
E 5280	60	100.000	✓	✓				
E 376	5	1.500.000	✓	✓		✓	✓	

CONSTRUCTION INDUSTRY

Rock, stone or glass wool are used in several applications. It ranges from insulation to construction with their general and special applications, such as bracing in rubber or plastic articles, plantation and other fields. To provide the wool with particular properties the products below were developed.

HYDROPHOBIZING OF ROCK AND GLASS WOOL

Struksilon E 5182

- Reactive silicone fluid emulsion
- Water repellent and lubricant insulation wool

Struktol VP 5334

- Amino alkylsilane solution in water
- Finish an coupling agent for mineral wool

Construction materials should be water repellent and at the same time vapor permeable. Silanes and siloxanes can provide this performance already at low concentration. These products can be used during the production of building materials or even in post treatment process for already erected structures.

HYDROPHOBING AGENTS FOR BUILDINGS AND BUILDING MATERIALS

Struktol VP 5230

Active Content: 50 %

- Emulsion of alkylsilane
- Water repellent for natural stone and concrete

Struktol VP 5393

Active Content: 100 %

- Reactive silicone fluid
- Composition for marble coating and natural stone, salt blocking agent

SUPER WETTING AGENTS FOR AGROCHEMICALS AND COATINGS



Struksilon super wetting agents are silicone products based on a trisiloxane structure. Their very strong spreading behaviour makes them ideal agents to wet hydrophobic surfaces. Struksilon trisiloxane spread an order of magnitude better than conventional organic or more expensive fluorocarbon surfactants. Often the efficiency of formulations is significantly improved, e. g. the content of actives can be lowered.

Struksilon trisiloxane wetting agents often achieve their full performance at very low concentrations ranging below 0.1 %. Their spreading and wetting behaviour is partly caused by the surfactants ability to dramatically lower the equilibrium surface tension.

Struksilon 8381

- Spreading agent for agrochemicals, wetting agent in coatings

Struksilon 8385

- Spreading agent for agrochemicals, especially for applications at higher temperatures

REACTIVE SILICONE OLIGOMERS



Struksilon H-type reactive silicone products are hydrogen functional silicone compounds of different molecular weights, Si-H content and function. Struksilon H 1106, H 1136 and H 1185 can be applied as chain extender in addition curing silicone rubber systems.

Due to the Si-H functionality these products are able to react in a catalysed hydrosilation reaction with compounds bearing carbon-carbon double bonds in 1-position, e. g. vinyl siloxanes, alpha olefins or other unsaturated compounds.

Common hydrosilation reaction catalysts are group VIII metal compounds, especially platinum compounds. In compounding addition curing silicone elastomers chain extenders reduce the crosslink density and thus the hardness of the resulting elastomer. The use of chain extenders allows compounding elastomers with relatively low shore hardness using low viscosity and easy to process vinyl silicone polymers in the formulation.

The Struksilon H 1260 series of products allows manufacturers of room temperature addition curing silicone elastomers to choose from a variety of crosslinkers allowing different crosslink densities.

Struksilon H 1106

· Terminal Si-H-substituted Polysiloxane

- Chain extender for RTV II addition cure systems 2.6 mmole SiH/g, 5 mm²/s

Struksilon H 1136

· Terminal Si-H-substituted Polysiloxane

- Chain extender for RTV II addition cure systems 0.7 mmole SiH/g, 30 mm²/s

Struksilon H 1185

· Terminal Si-H-substituted Polysiloxane

- Chain extender for RTV II addition cure systems 0.30 mmole SiH/g, 90 mm²/s

Struksilon H 1261

· Si-H-substituted Polysiloxane

- Crosslinker for RTV II addition cure systems 7.0 mmole SiH/g, 6 mm²/s

Struksilon H 1262

· Si-H-substituted Polysiloxane

- Crosslinker for RTV II addition cure systems 7.0 mmole SiH/g, 40 mm²/s

Struksilon H 1263

· Si-H-substituted Polysiloxane

- Crosslinker for RTV II addition cure systems 0.86 mmole SiH/g, 75 mm²/s

Struksilon H 1264

· Si-H-substituted Polysiloxane

- Crosslinker for RTV II addition cure systems 4.3 mmole SiH/g, 50 mm²/s

Struksilon H 1265

· Si-H-substituted Polysiloxane

- Crosslinker for RTV II addition cure systems 7.02 mmole SiH/g, 30 mm²/s

Struksilon H 1266

· Si-H-substituted Polysiloxane

- Crosslinker for RTV II addition cure systems 2.00 mmole SiH/g, 200 mm²/s

Struksilon H 1301

· Si-H-substituted Polysiloxane

- Crosslinker for RTV II addition cure systems 1.4 mmole SiH/g, 30 mm²/s

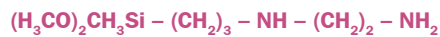
SILANES

Struksilon organofunctional silanes are used as adhesion promoters or coupling agents between inorganic materials, e. g. minerals, silica, glass, metal and organic polymers. Another important use is the modification of inorganic or organic surfaces. Last but not least Struksilon organofunctional silanes are useful starting materials for chemical synthesis, e. g. of aminosilicone fluids, which are widely used as softening agents in the textile industry.

SILANE FORMULATIONS

Struksilon S 10

· 2-Aminoethyl-3-aminopropyl-methyl-dimethoxysilane



- Production of aminosilicone fluids
- Coupling agent for foundry resins
- Primer for duroplastics

Struksilon S 11

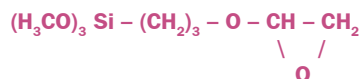
· 3-Aminopropyltriethoxysilane



- Coupling agent
- Crosslinker
- Surface modifier

Struksilon S 20

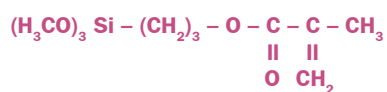
· 3-Glycidoxypropyltrimethoxysilane



- Coupling agent for foundry resins
- Crosslinker
- Surface modifier

Struksilon S 30

· 3-Methacryloxypropyltrimethoxysilane



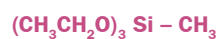
- Coupling agent
- Crosslinker
- Surface modifier



SILANE FORMULATIONS

Struksilon S 51

· Methyltriethoxysilane



- Crosslinker
- Chemical synthesis

Struksilon S 55

· n-Octyltriethoxysilane



- Additive for hydrophobing construction and material
- Strong hydrophobicity

Struksilon S 90

· 3-Mercaptopropyltrimethoxysilane



- Coupling agent
- Crosslinker
- Chemical synthesis

Struksilon S 134

- Waterbased solution of an aminosilan oligomer
- Reactive
- Adhesion promoter
- Good performance on metal surfaces

SILICONES FOR PAINT AND COATING INDUSTRY

Nowadays paints and coatings are sophisticated compositions of special ingredients to meet the needs and desires of different applications. There are particular paints for automotive, for construction, navy or other applications. Each field has its unique requirements. Listed below are products specifically designed to provide their inimitable effects in high performance compositions.

DE-AERATION AGENTS

To bring a coating directly into contact with the surface it's meant for, degassing is inevitable. Air bubbles and other gases that could be source of interruption must be diverted from the formulation to get the best possible connection to the surface.

Struksilon 8310

- Dosage: 0,5 – 3 %
- Polyether modified polydimethylsiloxane
- For solvent based systems

Struksilon D 52

- Dosage: 1 – 3 %
- Silicone emulsion with silica for dispersion paints
- For water based systems

Struktol VP 5382

- Dosage: 1 – 5 %
- Antifoam dispersion, combination of organic polymers and low amounts of silicones
- For water based systems

SURFACE ADDITIVES

Formation of a homogenous and continuous film requires an appropriate wetting of the surface. To improve the wetting and support the coating process especially constructed silicones are very helpful. With their different parts in polymer structure, they lower the surface tension of the liquid coating and thus professionally assist the wetting as well as levelling out the coating. Struktol surface additives provide excellent wetting properties.

Struksilon 8301

- Basically used for water based systems
- Top-coatable

Struksilon 8307

- Cloud point: 20 °C
- Enhances flow and levelling
- Increases mar resistance

Struksilon 8302

- Dosage: 0,05 – 0,4 %
- Mainly for solvent based systems

Struksilon 8308

- Cloud point: < 5 °C
- Enhances flow and levelling
- Increases mar resistance

Struksilon 8303

- Cloud point: 73 °C
- < 73 °C moderate foamer /
- > 73 °C antifoam agent

Struksilon 8314

- Cloud point: 34 °C
- < 34 °C moderate foamer /
- > 34 °C antifoam agent
- Water soluble

SILICONE WAXES

Silicone waxes are polymers combining organic as well as inorganic characteristics. Alkyl modified silicones are made by substitution of methyl groups by long chained alkyl groups. Due to this special structure silicone waxes combine the properties of both. Thus silicone waxes are perfectly appropriate for polishes of each kind of surfaces. They provide a shiny/glossy surface and a long lasting surface protection.

Struksilon 8421

- Melting point: 3 °C
- Dosage: 1 – 10 %
- High spreading ability
- Colourless

Struksilon 8422

- Melting point: 39 °C
- Dosage: 1 – 10 %
- Soluble in alcohols and common solvents

Struksilon 8423

- Melting point: 51 °C
- Dosage: 1 – 10 %
- Soluble in alcohols and common solvents

SCHILL+SEILACHER AT A GLANCE

→ HAMBURG

SPECIALITY CHEMICALS FOR:

RUBBER
ANTIFOAMS
POLYDIS
LATEX
SILICONES
RELEASE AGENTS



→ STOW / OHIO / USA

SPECIALITY CHEMICALS FOR:

PLASTICS
WOOD COMPOSITES
RUBBER
LEATHER



→ BÖBLINGEN

SPECIALITY CHEMICALS FOR:

FIBRES
TEXTILES
LEATHER
PAPER
COSMETICS
FINE CHEMICALS



→ PIRNA

SPECIALITY CHEMICALS FOR:

SILICONES
PU INDUSTRY
PAPER
TEXTILES
COSMETICS



→ HUDSON / OHIO / USA

PRODUCER OF:

NANOFIBRE MATRICES



We at Schill+Seilacher "Struktol" GmbH have met all our REACH registration obligations for 2010 and 2013. We are still active in our consortia and have begun preparations for the 2018 deadline. We also work closely with our suppliers to make sure that all our raw materials are also REACH compliant. For further information, please contact our Regulatory Affairs Department at REACH@struktol.de

WWW.STRUKTOL.DE

Disclaimer:

The information in this product brochure is based on the present state of our knowledge and experience. Our technical advice and recommendations whether verbal, in writing or by way of trials do not absolve the customer, on account of the many outside influences which may affect the product use and application, from their own testing and trials. A legally binding assurance based on the information contained herein regarding particular properties or the suitability for definite customer applications cannot be assumed. The customer bears the responsibility for the observation of possible patent and trademark rights in addition to relevant laws and regulations relating to the products.

Schill+Seilacher

Any Questions?

Our service team will be pleased to answer any questions and to assist you with advice and information at all times. We can also advise you of the contact data of our local offices and agencies. Data sheets and samples of our products are available upon request.

For more information please contact:

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