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PCC GROUP

SiSiB SILICONES

- Construction Protection Water Repellent
- Silicone Fluid Silicone Emulsion Silicone Finish
- Coating & Paint Leveling Agent Anti-graffiti
- Surfactant Agricultural Adjuvant
- Fumed Silica Silicone Polymer Silicone Rubber
- Persoal Care Elastomer Silicone Wax
- Organosilane Silane grafted PE
- Surfactant Foam Stabilizer Antifoam
- Silicone Grease Silicone Resin
- Plastic Additives Masterbatch Siloxane Powder

SiSiB SILICONES
A part of PCC group.

南京西斯博有机硅有限公司
Nanjing SiSiB Silicones Co., Ltd.

SiSiB SILICONES, a part of PCC group, is one of the leading manufacturers of silicones. It has one major intermediates production site for upstream applications and six downstream production units in China.

With over 27 years' experience in silicones, SiSiB SILICONES offer a complete range of silicone products in the areas of organofunctional silanes (Silane Coupling Agents, Silane Crosslinkers, Silane Blocking Agents), silicone fluids (Straight, Modified), silicone rubbers (Gum, HTV, RTV and LSR), silicone resins and fumed silica. SiSiB SILICONES have been marketed across Europe, America and Asia Pacific, totally over 100 countries.

RESEARCH & DEVELOPMENT

We think R&D as the key to our technology leadership and future markets. To promote the continuous innovation of our technology and process, we also cooperate with several famous universities, like Nanjing University of Chemical Technology, Wuhan University and etc.

QUALITY ASSURANCE

We consider quality control extremely important for a featured producer to provide stable and high-quality products. We possess perfect production facilities, precise testing equipment and large-scale laboratories. Also we take great effort to enhance every employee's awareness of the significance of products' quality. All of these factors guarantee the quality of our products. We have been ISO9001: 2008 certificated by SGS. And we will continue to improve levels of quality-control to meet or even exceed the demands of our customers.

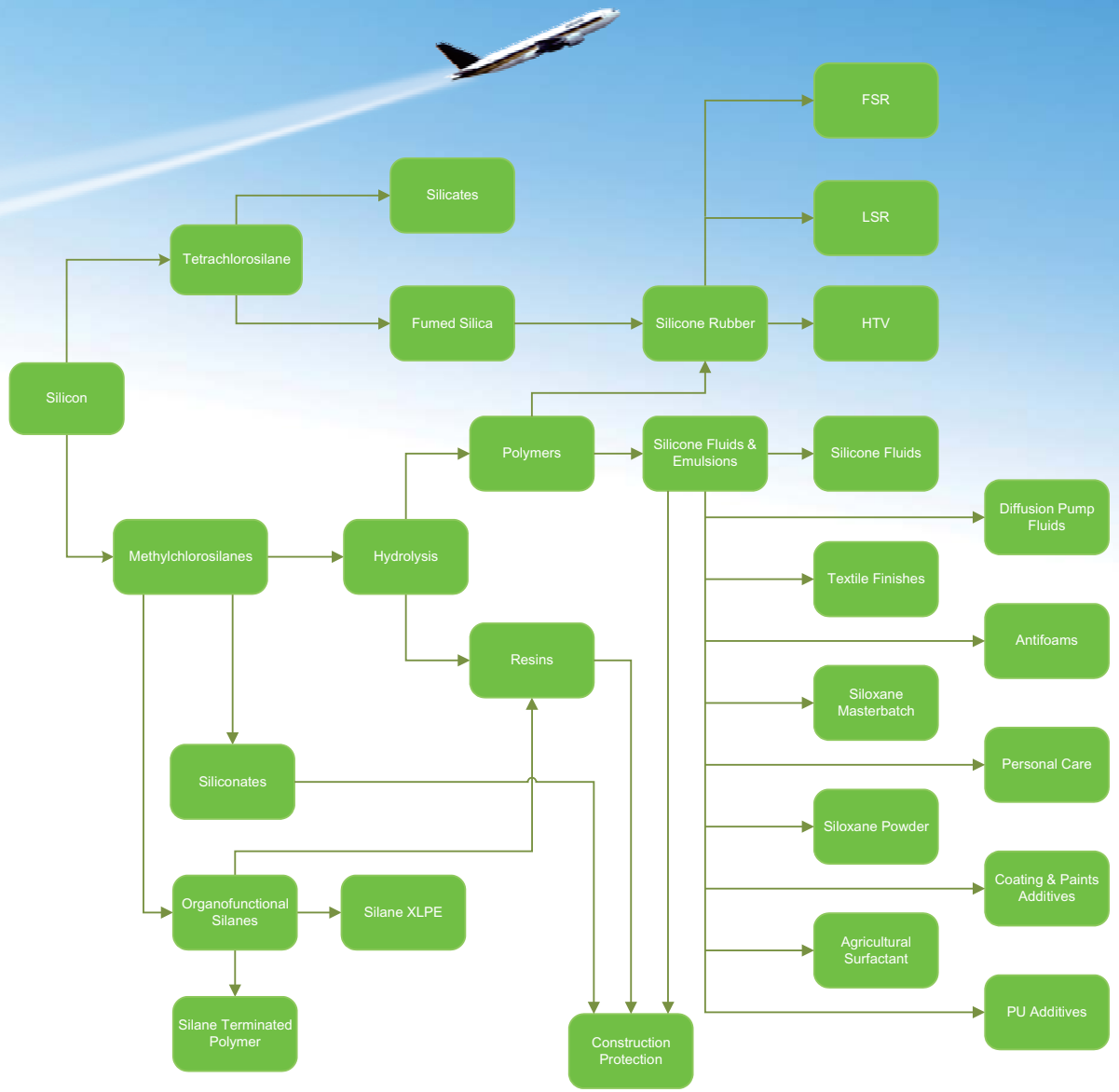
ENVIRONMENT & SAFETY

We usually give top priority to the policy of “safety and environmental protection first” during all the activities. Accordingly, we have adopted many powerful environmental objectives. We not only try our best to economize our energy and material resources, but also continuously improving our process to ensure to meet legal requirements. Now all of our plants have been certified by ISO14001.

QUALITY & LOWER PRICE IS OUR COMMITMENT

SERVING OUR CUSTOMER

Basing on loyalty and honesty, we always hold the aim to satisfy customers with efficient technical support, high quality products and favorable trade terms. You are warmly welcomed to cooperate with us for a brighter future.

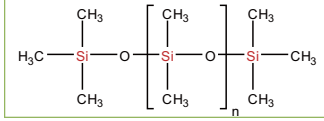


SiSiB SILICONES

Silicone Fluids

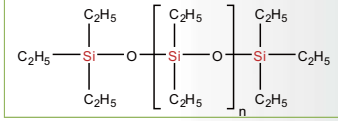
Dimethyl Silicone Fluid

SiSiB® MF2010 [CAS 63148-62-9]



Diethyl Silicone Fluid

SiSiB® EF2010 [CAS 63148-61-8]



Cyclomethicones

SiSiB® CF1040: D4

SiSiB® CF1050: D5

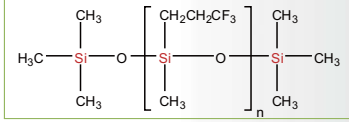
SiSiB® CF1060: D6

SiSiB® CF1045: D4/D5=70/30

SiSiB® CF1046: D5/D6=65/35

Fluoro Silicone Fluid

SiSiB® FF9020 [CAS 63148-56-1]

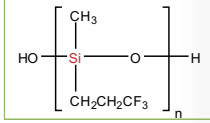


Vinlyl Fluoro Silicone Fluid

SiSiB® VF6960 [CAS 68951-98-4]

Hydroxy Fluoro Silicone Fluid

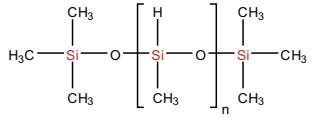
SiSiB® OF9020



Silicone Fluids

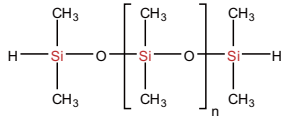
Methyl Hydrogen Silicone Fluid

SiSiB® HF2020 [CAS 63148-57-2]



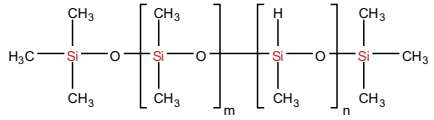
Hydrogen Terminated Silicone Fluid

SiSiB® HF2030 [CAS 70900-21-9]



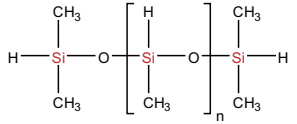
Hydrogen Silicone Fluid

SiSiB® HF2050 [CAS 68037-59-2]



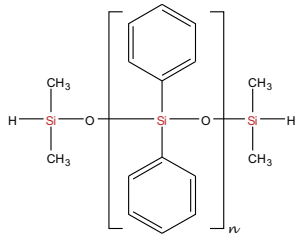
Hydrogen Silicone Fluid

SiSiB® HF2060 [CAS 69013-23-6]



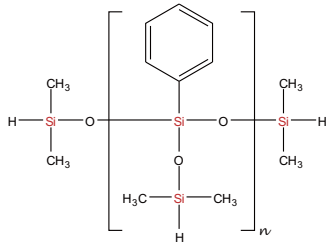
Hydrogen Silicone Fluid

SiSiB® HF2038



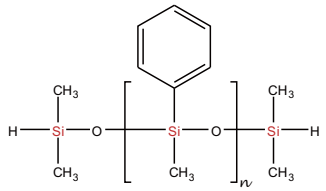
Hydrogen Silicone Fluid

SiSiB® HF2078 [CAS 6895-30-7]



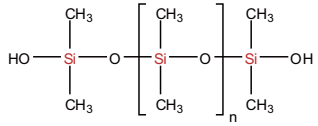
Hydrogen Silicone Fluid

SiSiB® HF2080



Hydroxy (Silanol) Silicone Fluid

SiSiB® OF0025, OF0156A, OF0156B [CAS 70131-67-8]

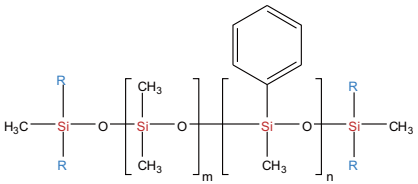


SiSiB SILICONES

Silicone Fluids

Phenyl Methyl Silicone Fluid

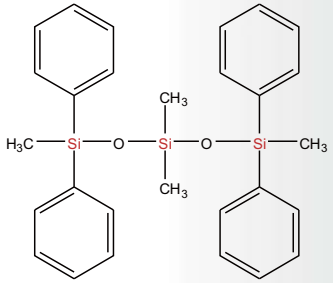
SiSiB® PF8250, PF8255



Diffusion Pump Fluids

SiSiB® PF8704 [CAS 3982-82-9]

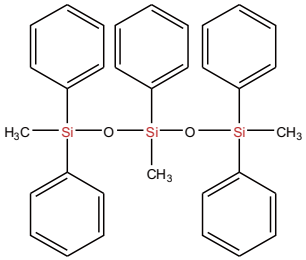
1,1,5,5-Tetraphenyl-1,3,3,5-Tetramethyltrisiloxane



Diffusion Pump Fluids

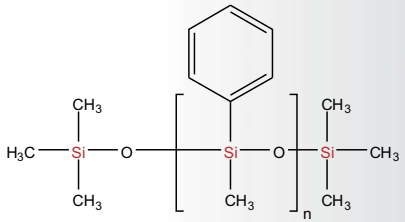
SiSiB® PF8705 [CAS 3390-61-2]

1,1,3,5,5-Pentaphenyl-1,3,5-Tetramethyltrisiloxane



Phenyl Methyl Silicone Fluid

SiSiB® PF8710 [CAS 9005-12-3]

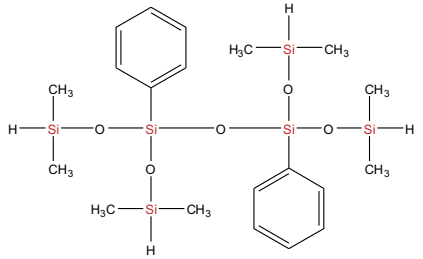


Silicone Fluids

Phenyl Silicone Fluid

SiSiB® PF8802[CAS 66817-59-2]

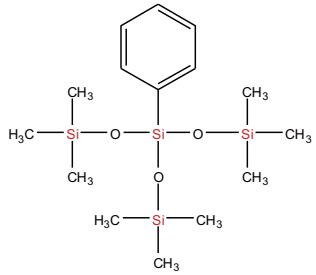
(1,3-Diphenyl-1,1,3,3-tetrakis(dimethylsiloxy)-disiloxane



Phenyl Methyl Silicone Fluid

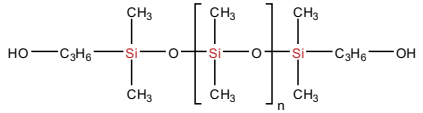
SiSiB® PF8806 [CAS 70131-69-0]

Phenyl tris(trimethylsilyloxy)silane



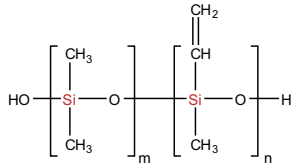
Hydroxypropyl Silicone Fluid

SiSiB® OF1300



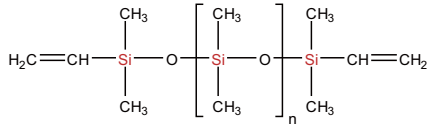
Hydroxy Terminated Methyl Vinyl Silicone Fluid

SiSiB® OF6050 [CAS 67923-19-7]



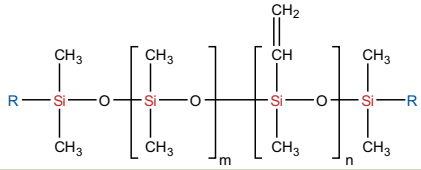
Vinyl Silicone Fluid

SiSiB® VF6030 [CAS 68083-19-2]



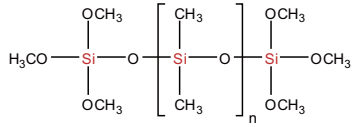
Vinyl Silicone Fluid

SiSiB® VF6070 [CAS 67762-94-1, 68083-18-1]



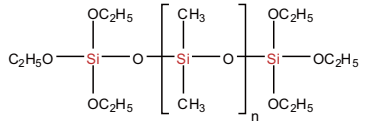
Alkoxy Silicone Fluid

SiSiB® PF2110 [CAS 142982-20-5]



Alkoxy Silicone Fluid

SiSiB® PF2120



SiSiB SILICONES

Silane Crosslinkable Polyethylene Compound

- ☐ Sioplas Method Silane-XLPE Compound for wires and cables up to 3kV
- ☐ Monosil Method Silane-XLPE Compound for wires and cables up to 3kV
- ☐ Sioplas Method Silane-XLPE Compound for aerial wires and cables up to 10kV
- ☐ Monosil Method Silane-XLPE Compound for aerial wires and cables up to 10kV
- ☐ Self-crosslinking Silane-XLPE Compound for wires and cables up to 3k
- ☐ Self-crosslinking Silane-XLPE Compound for aerial wires and cables up to 10kV

Siloxane Additives for Plastic

- ☐ Siloxane Masterbatch,
  Easy to handle additives of ultra high molecular weight siloxane in various thermoplastic resin carriers
- ☐ Siloxane Powder
  Siloxane powders (also known as resin modifiers) are 100% active, free-flowing powders available in both non-reactive and organically reactive grades of special ultra high molecular weight siloxane polymers with fumed silica.
- ☐ Anti Scratch Masterbatch

Silicone Rubber

Heat Cured Rubber (Precipitated Silica Based)

- ☐ High Grade Molding
- ☐ Economical Molding
- ☐ Extrusion
- ☐ High Bound Resilience

Heat Cured Rubber (Fumed Silica Based)

- ☐ High Strength
- ☐ High Transparency & Strength
- ☐ High Tear Strength
- ☐ Extrusion
- ☐ High Bound Resilience

Heat Cured Rubber (Special Application)

- ☐ Flame Retardant
- ☐ Oil Resistant
- ☐ Heat Resistant
- ☐ Self-Lubricated
- ☐ High Strength Self-Lubricated
- ☐ High Voltage Insulator
- ☐ Low Hardness

Liquid Silicone Rubber

- ☐ General Purpose
- ☐ High Transparency & High Strength
- ☐ High Strength
- ☐ Base Compound for Silicone Ink
- ☐ Base Compound for Silicone Vanish

Fluoro Silicone Rubber

- ☐ General Purpose
- ☐ High Tear Strength
- ☐ Special Purpose (Turbocharger Tube)
- ☐ Special Purpose (O Ring)
- ☐ High Temperature
- ☐ Low Compression Set

Silicone Gum

- ☐ Methyl Silicone Gum
- ☐ Vinyl Silicone Gum
- ☐ Phenyl Silicone Gum
- ☐ Fluoro Silicone Gum

Silane Terminated Polymer

Silane-modified polymers have been used to formulate sealants since the late 1980s. The major advantage of this class of polymers is that they combine the outstanding properties of silicones with those of polyurethanes.

The middle section of the Polymer is Polyether Polyols which provides the basic physical properties;
The active groups of both end are terminated by siloxane coupling agent which provides the basic adhesion propeties.

- ☐ SiSiB® STP-31020 has advantages of high activity, long elongation, good elasticity, suitable for construction sealants.
- ☐ SiSiB® STP-51280 has good storage stability, suitable for industrial medium and high modulus sealants.
- ☐ SiSiB® STP-71280 has lower viscosity, high hardness, suitable for industrial high modulus sealants.

SiSiB SILICONES

Silicones for Personal Care

- ☐ Silicone Elastomer / Elastomeric Powder / Elastomer Suspension
- ☐ Volatile Silicone (Cyclomethione, D3, D4, D5, D6 and blends)
- ☐ Dimethicone / Gum/ Blend / Emulsion
- ☐ Amino Functional Silicone / Emulsion
- ☐ Polyether Modified Silicone (Hydrophilic)
- ☐ Phenyl Modified Silicone
- ☐ Alkyl / Alkoxy Modified Silicone
- ☐ Silicone Resins
- ☐ Silicone Wax

Antifoams

Silicone Surfactant for Agriculture (Adjuvant)

SiSiB® ASS8408 [CAS 67674-67-3]	SiSiB® ASS8277 [CAS 27306-78-1]
It is a super-spreading surfactant based on polyether modified trisiloxane. It lowers the surface tension of spray solutions, beyond that which is achievable with conventional adjuvants.	It is a 100% nonionic organosilicone product which has been proven to have effective and poweful wetting capabilities when used in aqueous sprays.
SiSiB® ASS8806 [CAS 134180-70-6]	**SiSiB® ASS8309 [CAS 125997-17-3]**
It is a superspreading surfactant based on a trisiloxane alkoxylate. It lowers the surface tension of spray solutions, beyond that which is achievable with conventional adjuvants.	It is is a nonionic surfactant that has been specifically designed to enhance the efficacy of pesticides. It is particularly effective when used with water-soluble and post-emergent herbicides.
SiSiB® ASS8211 [CAS 67674-67-3]	**SiSiB® ASS8560**
It is a low molecular weight nonionic silicone polyether surfactant (superwetting agent), can improve the wetting, spreading and penetration of agricultural chemicals.	It is an alkyl modified trisiloxane, can improve the coverage of oils. It is designed for delivery ofr oil-based pessticide formulations.

Silicone Surfactant (PU Additives)

- ☐ Rigid Foam Stabilizer
- ☐ Rigid Foam Cell Opener
- ☐ Slabstock Foam Stabilizer
- ☐ Flexible Foam Stabilizer
- ☐ Shoe Sole Foam Stabilizer

Silicone Finishes (Softeners) for Textile

- ☐ Pendant Amino Polyether Silicone Fluids
- ☐ Novel Block - Linear (AB)n Silicone Fluid
- ☐ Hydrophilic Amino Silicone Emusion.
- ☐ Hydrophilic Silicone Fluid

SiSiB SILICONES

Silicone Water Repellent

Moisture is the root cause of almost all mechanisms that damage mineral building materials. Their porous nature allows water and dissolved contaminants to penetrate via capillary action from the surface into the interior.

Most siloxanes, especially silanes, are smaller than the pores of substrate, and when applied to the surface of a suitable substrate, penetrate deeply. They react with themselves and any hydroxy (OH) groups within the substrate when moisture is present, forming a silicone resin network. This formation of strong chemical bonds provides the durability characteristic of silicone treatments.

When cured, external liquid water is kept from entering the pores, while water vapor generated from within the structure can still escape. The structure remains breathable. Because they are inside the pores, water repellent treatments are not affected by UV radiation.

Silanes are the smallest silicone molecules, which ensures deep penetration into substrates.

SiSiB SILICONES provide different based waterproofing agents:

Creme Based:
It reduce water uptake extremely effectively. It also ensures very good penetration depth and easy application.

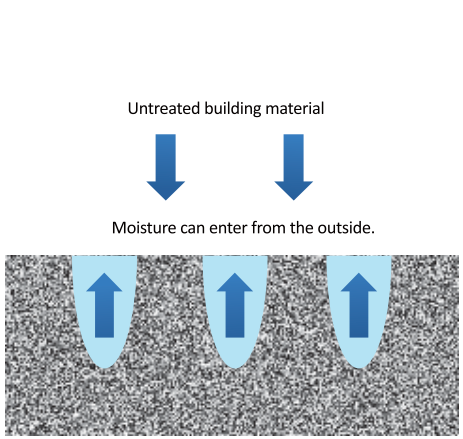
Water Based:
They are free of solvents and a perfect choice for absorbent substrates. They are odor-free and require no special ventilation or personal protective equipment beyond eye protection and gloves. They are not flammable. They can be easily diluted on-site, and cleanup of tools and equipment is very easy.

Silicone Water Repellent

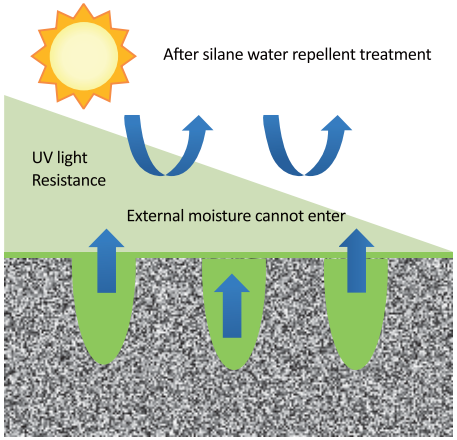
Solvent Based:

Water-based treatments do not penetrate as deeply as solvent based treatments on less porous substrates, like dense concrete or stone. This can in some cases make water-based treatments less durable over time, but since durability depends so much on the substrate being treated, environmental conditions and other factors such as the concentration of the treatment, the durability is not completely dependent on the penetration level.

Water-based treatments tend to dry more slowly than solvent based treatments, but unless the temperature is quite low, this is usually not a concern or problem. If possible, a 24 hour dry time is recommended for most water-based treatments before returning the treated area to normal use or before exposure to rain or other water. Ideally, 3-5 days is even better.



Water vapor can escape from the inside.



Water vapor can escape from the inside.

Products	Chemical Name	CAS #	Appearance	Active Ingredient
SiSiB® WR0301	n-Propyltrimethoxysilane	1067-25-0	Clear, colorless	99%
SiSiB® WR0411	isobutyltrimethoxysilane	18395-30-7	Clear, colorless	98%
SiSiB® WR0412	isobutyltriethoxysilane	17980-47-1	Clear, colorless	98%
SiSiB® WR0801	n-Octyltrimethoxysilane	3069-40-7	Clear, colorless	98%
SiSiB® WR0802	n-Octyltriethoxysilane	2943-75-1	Clear, colorless	98%
SiSiB® WR0812	iso-Octyltriethoxysilane	35435-21-3	Clear, colorless	98%
SiSiB® WR0818	iso-Octyltriethoxysilane Cream	35435-21-3	Creamy, white	80%
SiSiB® WR0777	Potassium Methyl Siliconate	31795-24-1	Clear, colorless	42~52%**
SiSiB® WR0772	Sodium Methyl Siliconate	16589-43-8	Clear, colorless	30%**
SiSiB® WR2020	Methyl hydrogen polysiloxane	63148-57-2	Clear, colorless	100%
SiSiB® WR1001	Silane / Siloxane Emulsions	N.A.	Milky, white	42%
SiSiB® WR4004	Silane / Siloxane Emulsions	N.A.	Milky, white	42%
SiSiB® WR1290	Silane / Siloxane Formulations	N.A.	Hazy, colorless	100%

Siicone Water Repellent

Products	Dilution	Substrate	Benefits	Equivalent
SiSiB® WR0301	Solvent	Concrete	Protect reinforced concrete from chlorine attack	DowCorning Z6264.
SiSiB® WR0411	Solvent	Concrete	Protect reinforced concrete from chlorine attack	DowCorning Z-2306, Evonik IBTMO
SiSiB® WR0412	Solvent	Concrete	Protect reinforced concrete from chlorine attack	DowCorning Z-6403, Evonik IBTEO
SiSiB® WR0801	Solvent	Alkaline substrate such as new concrete	Contains small molecules that allow deep penetration; provides water repellency by bonding chemically with the substrate.	DowCorning Z-6665, Evonik OCTMO
SiSiB® WR0802	Solvent	Alkaline substrate such as new concrete	Contains small molecules that allow deep penetration; provides water repellency by bonding chemically with the substrate.	Silquest A-137, DowCorning Z-6341, Evonik OCTEO
SiSiB® WR0812	Solvent	Concrete	Protect reinforced concrete from chlorine attack	Wacker IO-TRIETHOXY, Silres BS 1701
SiSiB® WR0818	Cream	Concrete	Protect reinforced concrete from chlorine attack	Wacker Silres BS CREME C
SiSiB® WR0777	Water	Neutral, bricks, ceramics, Roof Tiles, Perlite, Vermiculite	Water-dilutable solution gives water repellency to a variety of substrates.	DowCorning OFS-0777, Wacker Silres BS16, Rhodia Siliconate 51T
SiSiB® WR0772	Water	Neutral, bricks, ceramics, Roof Tiles, Perlite, Vermiculite	Water-dilutable solution gives water repellency to a variety of substrates.	DowCorning OFS-0772.
SiSiB® WR2020	Solvent	Gypsum	Hydrophobing treatment for plasterboard, plaster blocks, powders and granular materials.	Momentive TSF-484, Wacker Silres BS94, Rhodia Rhodoril H68, ShineTsu KF-99
SiSiB® WR1001	Water	Bricks, concrete, sand-lime brick, natural sandstone and mineral plasters	General purpose water repellents for impregnating and priming mineral surfaces.	Wacker Silres BS 1001
SiSiB® WR4004 (Formal SiSiB® WR0840)	Water	Bricks, sand-lime brick, natural sandstone and mineral plasters.	General purpose water repellents for impregnating and priming mineral surfaces. Excellent beading effect.	Wacker Silres BS 4004
SiSiB® WR1290	Solvent	Brickwork all kinds of concrete aerated concrete sand-lime brickwork cement fiberboards mineral plasters mineral-based natural and artificial stone mineral paints	General purpose impregnating and priming agent for mineral and strongly alkline substrates.	Wacker Silres BS 290

Additives for Coating & Paint

KOBOND™ Polyacrylate leveling agent

Polyacrylate surface control additives based on special designed acrylic monomers with low surface tension. These additivess can improve flow and leveling.

ADDSIL™ Polyester modified silicone leveling agent

Polysiloxanes (silicones) have a very high surface activity and therefore are often used as surface control additives. Commercial silicone based surface control additives are modified by polyethers, polyesters or alkyl side groups to improve recoatability and intercoat adhesion. Modification parameters are silicone content, molecular weight and modification degree.

KOBOND™ Fluorocarbon modified polyacrylate leveling agent

It can improve flow and leveling, not stabilize the foam, not affect the recoatability and can effective reduce surface tension, improve substrate wetting and anti-crater.

ADDSIL™ Reactive silicones

- ☐ Hydroxy Functional silicone
- ☐ Epoxide Functional silicone
- ☐ Acrylate Functional silicone

Reactive silicones can be incorporated into polymers, and provide increased flexibility, stain resistance and improve surface wetting.

KOBOND™ Fluorine surfactant

Fluorosurfactants are the most effective compounds to lower the surface tension of aqueous solutions; Fluorosurfactant aqueous solutions have minimum surface tension 15–20 mN/m.

ADDSIL™ Substrate wetting agent

Short chain polyether siloxanes are used primarily to reduce surface tension in waterborne coatings. Longer chain polyether siloxanes are better in in solventborne and UVcoatings

KOBOND™ Defoamer

Silicone Free Defoamers

ADDSIL™ Defoamer

Silicone Based Defoamers

KOBOND™ Dispersant

Solution of a high molecular weight block copolymer with pigment affinic groups

ADDSIL™ Anti-graffiti and easy-clean additives

Polysiloxane provides anti dirt pick up and easy cleaning effect. OH-groups allow cross-linking into many reactive binder systems (permanent)

Fumed Silica

Product Name	BET surface area (m2/g)	Loss on drying [wt.%]	pH value
SiSiB® FS0100	100 +/- 15	Max. 1.5%	3.6-4.3
SiSiB® FS0130	130 +/- 15	Max. 1.0%	3.6-4.3
SiSiB® FS0150	150 +/- 15	Max. 1.0%	3.6-4.3
SiSiB® FS0200	200 +/- 15	Max. 2.0%	3.6-4.3
SiSiB® FS0250	250 +/- 15	Max.2.0%	3.6-4.3
SiSiB® FS0300	300 +/- 15	Max. 2.0%	3.6-4.3
SiSiB® FS0380	380 +/- 15	Max. 2.5%	3.6-4.3

Silicone Resin