

**Product
Brochure**



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Reach Your Ideal Silicone

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ABOUT RUIJIANG GROUP

RUIJIANG GROUP was established in 1999, headquartered in Hangzhou city, China.

Ruijiang Group created a technical relationship with most of the Silicone and Silane suppliers in China. If the factory could meet the quality needs of Ruijiang group then they would toll manufacture with our label. Later, we created an ISO certified quality control lab in Hangzhou to validate quality and maintain samples on all that we sell. We are one of the top 10 silicone exporters in China and an aggregator of the best quality and sources China has to offer. With 70% of the global Silicon metal, Silicone monomer and silicones and silanes coming from China, we distinguish ourselves from rest.

Hangzhou Ruijiang Chemical Co. Ltd, branded as RUISIL, is subsidiary of Ruijiang Group. RUISIL is a technology-based chemical company, focusing on research and application of new silicone material and technology, which provides silicone products & solution to Building & Construction, Cosmetics, Automotive, Agriculture, Textile, Coating & paint, Pharmaceuticals, Adhesives and Sealants, Cleaning Chemicals, etc.

Our product line is broad and covers many Silicones and Silanes. We have grown significantly since our early beginning and continue to add value like Product Liability insurance, Europe & US Company, local inventory, A team that works across the world to bring you answers within 24 hours and tracks and follows your shipments until they reach your door. We work together closely so that you experience seamless customer service!

We will always evaluate a new opportunity and have a technical team to determine if we can make a new product. Ask, we will do what we can to meet your needs! It is not always easy to buy from halfway around the world but give us a try and see how pleased you become with our service, pricing, terms and quality. We will work hard to gain your trust and supply your needs.

RUISIL

Since
1999

SILICONE FLUID				
RUISIL CODE	CHEMICAL NAME	CAS NO.	KEY INDEX	APPLICATION
RJ-201	Hexamethyldisiloxane	107-46-0	Viscosity (25℃), cst: 0.65	Stronger cleaning agents
	Octamethyltrisiloxane	107-51-7	Viscosity (25℃), cst: 1	Solvents or carriers for silicone oils or greases
	Decamethyltetrasiloxane	141-62-8	Viscosity (25℃), cst: 1.5	Volatile for Personal care
	Dodecamethylpentasiloxane	141-63-9	Viscosity (25℃), cst: 2	Bath Fluid Heat Transfer Fluid
	Polydimethylsiloxane	63148-62-9	Viscosity (25℃), cst: 5~60000	Polishing agent
				Lubricating agent for textile threads Heat protecting agent
				Release agent Defoaming agent Lubricants Cutting fluid Transformer oil Personal care Car care Silicone sealant
RJ-D4	Octamethylcyclotetrasiloxane	556-67-2	Purity: 99% min	Monomer for silicone oil, silicone rubber
RJ-D5	Decamethylcyclopentasiloxane	541-02-6	Purity: 99% min	Volatile for Personal care

HYDROXY SILICONE FLUID				
RUISIL CODE	CHEMICAL NAME	CAS NO.	KEY INDEX	APPLICATION
RJ-107	OH Polymer, Silanol Terminated Polydimethylsiloxane	70131-67-8	Viscosity (25℃), cst: 750/1000/1500/2000~80000 Volatile (150℃, 3h): ≤1.5% Curing time : <2h	Silicone sealant Potting sealant Roof coating RTV1 & RTV-2
RJ-401	Hydroxy Terminated Silicone Fluid	70131-67-8	Viscosity (25℃), cst: 30~120	Silicone rubber Fabric softening agent Anti seizing agent
RJ-4013	Hydroxypropyl Terminated Silicone Fluid	174254-17-2	Molecular Weight: 1000-5000	Hand feeling agent Dirt resistance agent
RJ-403	Monohydroxy Functional Silicone Fluid	70131-67-8	Viscosity (25℃), cst: 5000~50000	Antifouling silicone sealant
RJ-9401	Hydroxy Terminated Poly(Dimethyl/Methylvinyl) Silicone Fluid	67923-19-7	Viscosity (25℃), cst: 25~40	Liquid silicone rubber Anti-sticking agent for paper

HYDROGEN SILICONE FLUID				
RUISIL CODE	CHEMICAL NAME	CAS NO.	KEY INDEX	APPLICATION
RJ-202	Methyl Hydrogen Silicone Fluid	63148-57-2	Viscosity (25°C), cst: 15~50	Gypsum board Silicone rubber Fiber glass
			Hydrogen Content : 1.55~1.65%	Fire extinguishing agent Hydrophobic agent
			Volatile (120°C, 3h): : ≤3.0%	Surface treatment Organic polymer modification
RJ-203	Hydrogen Terminated Silicone Fluid	70900-21-9	Viscosity (25°C), cst: 5~400 Hydrogen Content : 0.01~0.30%	Liquid silicone rubber Silicone-modified block or graft copolymer Silicone Softener
RJ-204	Low Hydrogen Silicone Fluid	68037-59-2	Viscosity (25°C), cst: 10~300 Hydrogen Content : 0.05~1.20% Volatile (120°C, 3h): : ≤3.0%	Liquid silicone rubber Organic polymer modification

VINYL SILICONE FLUID				
RUISIL CODE	CHEMICAL NAME	CAS NO.	KEY INDEX	APPLICATION
RJ-9011	Vinyl Terminated polydimethylsiloxane	68083-19-2	Viscosity (25℃), cst: 20~165000	Liquid silicone rubber Potting sealant Silicone gel Dental impression RTV-2
RJ-9012	Special structure vinyl Silicone Fluid	67762-94-1	Viscosity (25℃), cst: 200~4000	
RJ-9013	Vinyl terminated dimethyl methyl vinyl polysilo	68083-18-1	Viscosity (25℃), cst: 300~50000	
SILICONE FLUID EMULSION				
RUISIL CODE	CHEMICAL NAME	KEY INDEX		APPLICATION
RJ-6018	Silicone Fluid Emulsion	Solid content(%): 60.0-66.0 Viscosity(cst): 350, 1000, and other customized viscosity		Textile raising agent Plastic and rubber release agent Leather and furniture polishing agents Car care & household care Personal care



PHENYL SILICONE FLUID				
RUISIL CODE	CHEMICAL NAME	CAS NO.	KEY INDEX	APPLICATION
RJ-255	Polymethyl Phenyl Siloxane Fluid	63148-58-3	Viscosity (25℃), cst: 75/100/125/150/500/1000 Refractive index (25℃), 1.4800~1.5000	Lubricant Heat transfer medium Thermostat fluid Insulating oil
RJ-254	Vinyl-terminated phenyl methyl silicone oil	25927-21-9	Viscosity (25℃), cst: 1000-8000	Liquid silicone rubber Silicone gel LED Potting compound Electronic potting sealant
RJ-252	Phenyl Hydrogen Silicone Oil	/	Viscosity (25℃), cst: 50~300 Hydrogen content: 0.2~0.9%	Liquid silicone rubber Phenyl silicone rubber Phenyl silicone resin LED Potting compound
RJ-257	Hydrogen Terminated Phenyl Silicone Oil	68952-30-7	Viscosity (25℃), cst: 2000-8000 Hydrogen content: 0.2-0.4%	Electronic potting sealant
RUI704	Tetramethyl tetraphenyl trisiloxane	3982-82-9	Ultimate Vacuum, torr(untrapped) 10 ⁻⁷ Saturated Vapor Pressure, torr 5×10 ⁻⁸ Viscosity (25℃), cst: 35-41	Diffusion Pump Oil
RUI705	Pentaphenyl trimethyl trisiloxane	28855-11-0	Ultimate Vacuum, torr(untrapped) 10 ⁻⁹ ~10 ⁻¹⁰ Saturated Vapor Pressure, torr 5×10 ⁻¹⁰ Viscosity (25℃), cst: 170-175	Diffusion Pump Oil

OTHER SILICONE FLUID				
RUISIL CODE	CHEMICAL NAME	CAS NO.	KEY INDEX	APPLICATION
RJ-241	Methoxy Terminated Silicone Fluid	/	Viscosity (25℃), cSt: 1000~80000	Dealcoholized silicone sealant
RJ-303	Epoxy terminated Silicone Fluid	/	Molecular weight: 6000 Viscosity(25℃), cst: 140~160	Block silicone oil
RJ-ES303	Multivariate Copolymerization Of Epoxy Silicone Fluid	/	Molecular weight: 4000-20000	Intermediate for the synthesis of block silicone oil instead of terminal epoxy silicone oil
RJ-8011	Octyl Silicone Fluid	17955-88-3	Viscosity(25℃), cst: 2~5	Carrier of other components Personal care
RJ-6115	Long-chain Alkyl Silicone Fluid	/	Viscosity (25℃), cst: 900~1500 Volatile (150℃, 3h): ≤1%	Lubricants Mold release agent for plastics, rubber, PU Defoamer and leveling agent
RJ-6017	Modified Alkyl Aryl Polysiloxane	68037-76-3	Viscosity (25℃), cst: 1000~1500 Volatile (150℃, 3h): ≤1%	Release agant for metal die casting Hydrophobic agent
RJ-6017-50	Modified Alkyl Aryl Polysiloxane emulsion	/	Active Ingredient: 49-51%	Release agant for metal die casting
RJ-2801	Polymethyl Trifluoropropyl Siloxane	/	Viscosity (25℃), cst: 300/500/1000	Lubricating oil Defoaming agent Textile finishing agent
RJ-2811	Vinyl Terminated Methyl Trifluoropropyl Siloxane	/	Viscosity (25℃), cst: 300/500/1000	Fluoro silicone compounds Fluoro silicone coating
RJ-2821	Hydroxyl Terminated Methyl Trifluoropropyl Siloxane	/	Viscosity (25℃), cst: 100	Structure controlling agent for fluoro silicone compounds

SILANE COUPLING AGENT			
RUISIL CODE	CAS NO.	CHEMICAL NAME	APPLICATION
Amino Silane			
RJ-540	13822-56-5	3-Aminopropyltrimethoxysilane	Coating, adhesive, sealant, filler, composite, fiberglass
RJ-550	919-30-2	3-Aminopropyltriethoxysilane	Coating, adhesive, sealant, plastics, filler, composite, fiberglass
RJ-602	3069-29-2	N-(2-aminoethyl-3-aminopropyl)methyldimethoxysilane	Coating, adhesive, sealant, filler, composite, textile
RJ-792	1760-24-3	N-(2-aminoethyl)-3-aminopropyltrimethoxysilane	Coating, adhesive, sealant, plastics, filler, composite, fiberglass
RJ-901	3663-44-3	3-Aminopropyldiethoxymethylsilane	Coating, adhesive, sealant, filler, composite
RJ-902	3179-76-8	3-Aminopropylmethyldiethoxysilane	Coating, adhesive, sealant, filler, foundry, textile
RJ-TATMS	35141-30-1	3-[2-(2-Aminoethylamino)ethylamino]propyl-trimethoxysilane	Coating, adhesive, sealant
RJ-170	82985-35-1	Bis[3-(trimethoxysilyl)propyl]amine	Coating, adhesive, sealant, filler, composite
RJ-180	41051-80-3	3-(Diethylamino)propyltrimethoxysilane	Coating, adhesive, sealant, filler, composite
RJ-181	2530-86-1	3-(Dimethylamino)propyltrimethoxysilane	Coating, adhesive, sealant, filler, composite
RJ-DEAM	15180-47-9	Diethylaminomethyltriethoxysilane	Coating, adhesive, sealant, textile
RJ-TMPB	31024-56-3	N-(3-(Trimethoxysilyl)propyl)butylamine	Coating, adhesive, sealant, filler, composite
RJ-TMPC	3068-78-8	N-[3-(Trimethoxysilyl)propyl]cyclohexylamine	Coating, adhesive, sealant, textile, composite
RJ-PZPS	128996-12-3	γ-Piperazinylpropylmethyldimethoxysilane	Coating, adhesive, sealant, textile

SILANE COUPLING AGENT			
RUISIL CODE	CAS NO.	CHEMICAL NAME	APPLICATION
Epoxy Silane			
RJ-560	2530-83-8	3-(2, 3-Epoxy propoxy)propyltrimethoxysilane	Coating, adhesive, sealant, filler, composite, fiberglass
RJ-561	2602-34-8	3-(2, 3-Epoxy propoxy)propyltriethoxysilane	Coating, adhesive, sealant, filler, fiberglass
RJ-562	65799-47-5	3-(2, 3-Epoxy propoxy)propylmethyldimethoxysilane	Coating, adhesive, sealant, filler, fiberglass
RJ-563	2897-60-1	3-(2, 3-Epoxy propoxy)propylmethyldiethoxysilane	Coating, adhesive, sealant, filler, fiberglass
RJ-565	10217-34-2	2-(3,4-epoxycyclohexyl)ethyltriethoxysilane	Coating, adhesive, sealant, filler, fiberglass
Vinyl Silane			
RJ-171	2768-02-7	Vinyltrimethoxysilane	Coating, adhesive, sealant, cable, plastics, fiberglass
RJ-151	78-08-0	Vinyltriethoxysilane	Coating, adhesive, sealant, cable, plastics, fiberglass
RJ-172	1067-53-4	Vinyltri(2-methoxyethoxy)silane	Coating, adhesive, sealant, cable, plastics, fiberglass
RJ-173	18023-33-1	Vinyltri(isopropoxy)silane	Coating, adhesive, sealant, cable, plastics, fiberglass
Acyl Silane			
RJ-570	2530-85-0	3-Methacryloxypropyltrimethoxysilane	Coating, adhesive, sealant, filler, fiberglass
RJ-572	4369-14-6	3-Acryloxypropyltrimethoxysilane	Coating, adhesive, sealant, filler, fiberglass
Mercapto/Sulfide Silane			
RJ-580	14814-09-6	3-Mercaptopropyltriethoxysilane	Coating, adhesive, sealant, rubber, plastics, fiberglass
RJ-590	4420-74-0	3-Mercaptopropyltrimethoxysilane	Coating, adhesive, sealant, rubber, plastics, fiberglass
RJ-SI69	40372-72-3	Bis-[γ-(triethoxysilyl)-propyl]-tetrasulfide	Tire, rubber

SILANE COUPLING AGENT			
RUISIL CODE	CAS NO.	CHEMICAL NAME	APPLICATION

Ureido Silane

RJ-160	23779-32-0	γ-Ureidopropyltriethoxysilane (50% solution in methanol)	Coating, adhesive, sealant, filler, composite
RJ-161	23843-64-3	1-[3-(Trimethoxysilyl)propyl]urea	Coating, adhesive, sealant, filler, composite

Isocyanato Silane

RJ-886	15396-00-6	3-Isocyanatopropyltrimethoxysilane	Coating, adhesive, sealant
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Alkyl Silane

RJ-TMMS	1825-61-2	Trimethylmethoxysilane	Intermediate, end capping agent
RJ-PTEO	2550-02-9	N-propyltriethoxysilane	Coating, adhesive, sealant
RJ-OTES	2943-75-1	N-Octyltriethoxysilane	Coating, adhesive, sealant, filler, concrete, water repellent
RJ-ITMS	34396-03-7	Isooctyltrimethoxysilane	Coating, adhesive, sealant, filler, concrete, water repellent
RJ-ITES	35435-21-3	Isooctyltriethoxysilane	Coating, adhesive, sealant, filler, concrete, water repellent
RJ-N12	3069-21-4	Dodecyltrimethoxysilane	Coating, adhesive, sealant, filler, water repellent
RJ-N13	5575-48-4	N-Decyltrimethoxysilane	Coating, adhesive, sealant, filler, water repellent
RJ-N16	16415-12-6	Hexadecyltrimethoxysilane	Coating, adhesive, sealant, filler, water repellent
RJ-IBTES	17980-47-1	Isobutyltriethoxysilane	Coating, adhesive, sealant, filler, water repellent

SILANE COUPLING AGENT			
RUISIL CODE	CAS NO.	CHEMICAL NAME	APPLICATION

Phenyl Silane

RJ-PTMS	2996-92-1	Phenyltrimethoxysilane	Silicone resin, silicone oil
RJ-PTES	780-69-8	Phenyltriethoxysilane	Silicone resin, silicone oil
RJ-DPDMS	6843-66-9	Diphenyldimethoxysilane	Silicone resin, silicone oil
RJ-PMDMS	3027-21-2	Phenylmethyldimethoxysilane	Silicone resin, silicone oil
RJ-DPDS	80-10-4	Diphenyldichlorosilane	Silicone resin, silicone oil
RJ-DPSD	947-42-2	Diphenylsilanediol	Silicone resin, silicone oil

Fluoro Silane

RJ-190	51851-37-7	1H,1H,2H,2H-perfluoroalkyltriethoxysilane	Coating, resin
RJ-TFTM	429-60-7	(3,3,3-trifluoropropyl)trimethoxysilane	Coating, resin



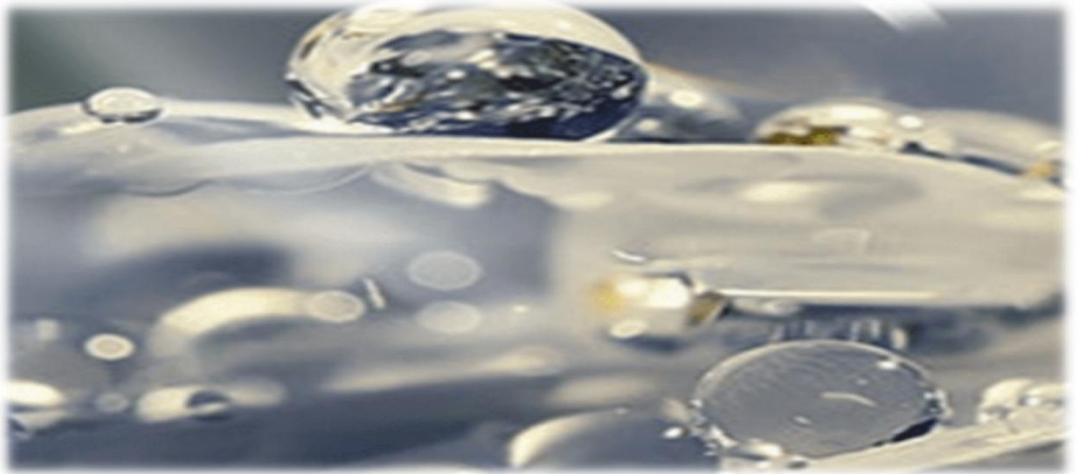
SILANE OLIGOMER		
RUISIL CODE	CHEMICAL NAME	APPLICATION
RJ-151SO	Vinyl silane oligomer	Cable, filler, coating
RJ-171SO	Vinyl silane oligomer	Cable, filler, coating
RJ-172SO	Vinyl silane oligomer	Cable, filler, coating
RJ-560SO	Epoxy silane oligomer	Coating, adhesive, sealant, filler, composite
RJ-792SO	Diamino silane oligomer	Coating, adhesive, sealant, filler, composite

SILANE CROSSLINKER			
RUISIL CODE	CAS NO.	CHEMICAL NAME	APPLICATION
RJ-MTAS	4253-34-3	Methyltriacetoxysilane	Silicone sealant Silicone rubber
RJ-ETAS	17689-77-9	Ethyltriacetoxysilane	Silicone sealant Silicone rubber
RJ-BDAC	13170-23-5	Di-tert-butoxydiacetoxysilane	Silicone sealant Silicone rubber
RJ-VOS	2224-33-1	Vinyltri(methylethylketoxime)silane	Silicone sealant Silicone rubber
RJ-MOS	22984-54-9	Methyltris(methylethylketoxime)silane	Silicone sealant Silicone rubber
RJ-POS	34036-80-1	Phenyltris(methylethylketoximio)silane	Silicone sealant
RJ-TOS	34206-40-1	Tetra(methylethylketoxime)silane	Silicone sealant
RJ-MTMS	1185-55-3	Methyltrimethoxysilane	Filler, composite, sealant
RJ-MTES	2031-67-6	Methylthriethoxysilane	Filler, composite, sealant
RJ-Si28	78-10-4	Tetraethoxysilane, Ethyl silicate 28	Coating, silicone rubber, composite
RJ-Si32	11099-06-2	Ethyl silicate 32	Coating, silicone rubber, composite
RJ-Si40	11099-06-2	Ethyl silicate 40	Coating, silicone rubber, composite

SILOXANE INTERMEDIATE			
RUISIL CODE	CAS NO.	CHEMICAL NAME	APPLICATION
RJ-TMDS	3277-26-7	1,1,3,3-Tetramethyldisiloxane	Silicone oil Silicone rubber
RJ-MM	107-46-0	1,1,1,3,3,3-Hexamethyldisiloxane	Silicone oil Silicone gel Silicone aerogel
RJ-MDM	107-51-7	Octamethyltrisiloxane	Silicone oil Silicone rubber
RJ-HMDZ	999-97-3	1,1,1,3,3,3-Hexamethyldisilazane	Silylating agent for medicine Silicone rubber Surface treatment for silica
RJ-VMM	2627-95-4	1,3-Divinyltetramethyldisiloxane	Silicone rubber Silicone oil
RJ-HMTS	1873-88-7	1,1,1,3,5,5,5-Heptamethyltrisiloxane	Polyether silicone oil Octyl silicone oil
RJ-PHD4	546-56-5	Octaphenylcyclotetrasiloxane	Silicone Intermediate Medical intermediate
RJ-D4H	2370-88-9	Tetramethylcyclotetrasiloxane	Silicone rubber Silicone oil

SILANE TERMINATED POLYETHER POLYMER		
RUISIL CODE	CHEMICAL NAME	APPLICATION
RJ-STP series	Silane Terminated Polyether Polymer	MS Sealant, roof coating

SILICONE RESIN			
RUISIL CODE	CHEMICAL NAME	KEY INDEX	APPLICATION
RJ-R887	Methyl Silicone Resin	Solid content (150 °C, 2h): 50±2 Viscosity (TU-4 cup viscometer, 25 °C, S): 10-20 Solvent: xylene	High temperature resistant coatings and anti-corrosion coatings
RJ-R883 60%	Methyl Phenyl Silicone Resin	Solid content (%): 60±1 Viscosity (TU-4 cup viscometer, 25±1 °C, S): 40~70	High temperature resistant coatings and anti-corrosion coatings
RJ-R883 50%	Methyl Phenyl Silicone Resin	Solid content (150 °C, 2 h, %): 50±1 Viscosity (TU-4 cup viscometer, 25±1 °C, S): ≥20	High temperature resistant coatings and anti-corrosion coatings
RJ-R501B	Solid Silicone Resin	Solid content (180 °C, 1h): 99% Gelation time (200 °C, min): 10~60 Softening point (°C): 80±5 Heat resistance of varnish (≥ 350 °C, 4h): ≤ 5%	Coating protection of various high temperature resistant equipment and powder coatings
RJ-R871	Methyl silicone resin	Solid content (150 °C, 2h, %): 70±2 Solvent: toluene/xylene	Mica sheet
RJ-R871A	Methyl silicone resin	Solid content (150 °C, 2h, %): 60±2	Mica tape
RJ-R885	Methyl phenyl silicone resin	Solid content (150 °C, 2h, %): 50±1	Mica sheet



WETTING & LEVELING AGENT				
RUISIL CODE	COMPOSITI ON	ACTIVE CONTENT	SYSTEM	APPLICATION
RC-L211	Organosiloxane Polymers	100%	Water-based, Solvent- based, Solvent-free, UV	Universal wetting agent, automotive paint, industrial paint, architectural paint, decorative paint
RC-L213	Organosiloxane Polymers	100%	Water-based, Solvent- based, Solvent-free, UV	Automotive paints, industrial coatings, architectural paint substrates, wood and furniture paint substrates
RC-L231	Polyether modified silicone	100%	Water-based, UV	Excellent substrate wetting ability and anti-shrinkage crater ability, good leveling, has defoaming effect
RC-L236	Polyether modified silicone	100%	Water-based, UV	Plastic coatings, wood coatings, industrial coatings, decorative coatings, architectural coatings, ink-jet painting
RC-L237	Polyether modified trisiloxane	100%	Water-based, UV	Improve substrate wettability; Wetting for synthetic leather/ release paper; waterborne industrial coating
RC-L239	Polyether modified silicone	100%	Water-based, UV	Water-based wood paint, water-based industrial paint, ink, light curing system
RC-L336	Polyether modified silicone	100%	Water-based, solvent-baesd	Excellent compatibility, anti-cratering ability and ability to reduce surface tension
RC-L33	Polyether modified silicone	100%	Water-based, Solvent- based, UV	Universal leveling agent; Dramatically reduce the surface tension of coatings and printing inks; improve blocking resistance in aqueous systems
RC-L437	Polyether modified silicone	100%	Solvent-based	Provides significant substrate wetting, increased surface slip and improved scratch and block resistance

RC-L452	Acrylate modified silicone	100%	Solvent-based	Wood coatings, printing inks and surface varnishes, can coatings, plastic coatings
RC-L474	Specially modified polysiloxane	100%	Solvent-based	Increase coating surface slip and scratch resistance and anti-blocking
RC-L476	Modified Siloxane Solution	100%	Solvent-based	Provides good substrate wetting and anti-cratering properties; Improve coating surface smoothness, scratch resistance and anti-blocking properties
RC-L477	Polyether modified polysiloxane	100%	Solvent-based	Prevents the formation of Bernard's dimples; improves leveling and gloss, and good recoating property



DEFOAMER				
RUISIL CODE	COMPOSITI ON	ACTIVE CONTENT	SYSTEM	APPLICATION
RC-C112	Polysiloxane	100%	Waterborne	Universal defoamer, printing inks and varnishes, adhesives
RC-C135	Polyether modified silicone oil emulsion	55%	Waterborne	All kinds of latex paint, water-based ink, adhesive
RC-C139	Modified Organopolysilo xane	100%	Waterborne	High solids clear coatings, wood and furniture coatings, industrial coatings, architectural coatings
RC-C175	Organic modified polysiloxane emulsion	20%	Waterborne	Waterborne varnish and Paint formulations of architectural coatings, industrial coatings, wood and furniture coatings
RC-C190	Non-silicon polymer	100%	Waterborne	Strong defoaming and defoaming ability, does not affect recoating
RC-C194	Alkyndiol	50%	Waterborne	Ink, metal cutting fluid, lubricating fluid, pesticide
RC-C618	Polysiloxane compound	>98%	High solids	Epoxy floor coatings, screen inks, UV inks
RC-C652	Acrylate copolymer	30%	Solvent, solvent-free, ink	Extremely strong defoaming ability, can be used to eliminate air bubbles generated during production, construction and substrate wetting
RC-C653	Acrylate copolymer	100%	Solvent and solvent-free systems	Good compatibility, not easy to produce shrinkage cavity, safe to use
RC-C738	Polyether modified siloxane	100%	PU, Solvent-based	Good anti-microfoam effect

OTHER ADDITIVES				
RUISIL CODE	COMPOSITI ON	ACTIVE CONTENT	SYSTEM	APPLICATION
RC-T18	High molecular weight polydimethylsil oxane emulsion	100%	Waterborne	Improve surface smoothness and scratch resistance
RC-T19	Siloxane dispersion	80%	Waterborne	Wear resistance and anti-adhesion, the surface is dry and smooth
RC-T24	Modified urea solution	52%	Waterborne	Improve sag resistance and leveling
RC-T35	Potassium methyl silicate	50-55%	Waterborne coatings	Aqueous pH regulator, providing waterproof effect.
RC-T45	High molecular weight Polysiloxane Dispersion	60%	Water-based, Solvent-based, UV	It can significantly improve the scratch resistance, abrasion resistance and hand feel of the paint film surface, suitable for water-based coatings, inks and other systems
RC-T56	Organo-modified polysiloxane solution	10%	Waterborne, Solvent	Suitable for water and solvent-based coatings, providing excellent hammer effect
RC-T71	Polyester compounds with acidic groups	60%	Waterborne baking paint	Can participate in the cross-linking reaction of baking paint system, promote the adhesion of baking paint to metal substrates, and improve impact resistance
RC-T72	Acrylic resin emulsion	30%	Waterborne	Promote better anti-roller spatter and better film formation and leveling of coatings, and have anti-microbial and enzymatic degradation capabilities



SILICONE WATER REPELLENTS				
RUISIL CODE	COMPOSITION	ACTIVE CONTENT	APPEARANCE	APPLICATION
RJ-WP01	Potassium Methyl Siliconate	42% & 52%	Clear or lightly yellow solution	Roof tiles substrate processing
RJ-WP16E	Siloxane Emulsion	30%	Milky white liquid	Rock wool insulation material
RJ-WP25E	Siloxane Emulsion	50%	Milky white liquid	Rock wool insulation material
RJ-WP26E	Siloxane Emulsion	60%	Milky white liquid	Glass wool insulation material
RJ-WP11E	Silane/Siloxane Emulsion	42%	Milky white liquid	Interior and exterior surface of buildings.
RJ-WP102E	Silane/Siloxane Emulsion	52%	Milky white liquid	Interior and exterior surface of buildings.
RJ-WP35E	Silane/siloxane Emulsion	50%	Milky white liquid	All kinds of concrete include aerated concrete. Calcium silicate boards and other silicate based material.
RJ-WP17	Silane	≥95%	Clear or lightly yellow solution	Fiber cement product
RJ-WP18	Silane/siloxane/silicone resin	100%	Clear or lightly yellow solution	All kinds of concrete include aerated concrete
RJ-WP58	Siloxane	100%	Clear or lightly yellow solution	All kinds of concrete include aerated concrete
RJ-WP27	Silane Oligomer	100%	Clear liquid	Fiber cement product

RJ-WP03E	Silane/Siloxane Emulsion	40%	Milky white liquid	Natural stone and artificial stone, especially sandstone
RJ-WP08E	Silane Emulsion	40%	Milky white liquid	Calcium silicate boards as admixture in concrete or surface treatment
RJ-WP71E	Silicone Resin	52%	Milky white liquid	Siliconeresin emulsion coating Exterior coat
RJ-WP79E	Silicone Resin	55%	Milky white liquid	Silicone coating Acrylic emulsion coating Water based coating
RJ-WP29E	Acrylic Waterproof Agent	30%	Pale yellow liquid emulsion	Granite, marble, sandstone, slate Surface treatment of concrete, stone, brick, clay etc
RJ-WP60E	Silane/Siloxane Composite Emulsion	50%	Milky white liquid	As admixture in concrete or mortar
RJ-H60	Silane/Siloxane Powder	≥98%	White powder	Gypsum-based construction materials
RJ-H81	Silane/Siloxane Powder	≥50%	White powder	Dry-mix mortar

How Silicone works to protect construction?

$$2n\text{CH}_3\text{Si}(\text{OK})_2 + 3n(\text{CO}_2 + \text{H}_2\text{O}) \rightarrow 2n\text{CH}_3\text{Si}(\text{OH})_2 + 3n\text{K}_2\text{CO}_3$$

$$\xrightarrow{-\text{H}_2\text{O}}$$

$$\text{HO}-\text{Si}(\text{CH}_3)_2-\text{O}-\text{Si}(\text{CH}_3)_2-\text{O}-\text{Si}(\text{CH}_3)_2-\text{O}-\text{Si}(\text{CH}_3)_2-\text{O}-\text{Si}(\text{CH}_3)_2-\text{OH}$$

Substrate surface

Small molecular size; porous penetration substrate

UV-light resistance

Lower surface energy; increased contact angle

Reduced capillary

Permeable to water vapor

Treated | Non-treated

Silicone-based masonry water repellents provide the most effective protection against moisture decay. It will penetrate and provide water repellency(hydroxy groups) by chemically reacting with the substrates surface. These hydroxy groups will bond with the substrate and itself to produce a hydrophobic silicone resin network that inhibits water absorption into the substrate.

SILICONE SEALANT				
RUISIL CODE	TYPE	APPEARANCE	DENSITY/(G/CM3)	APPLICATION

Acetoxy Silicone Sealants

RJ-M600-0	One-component, acid-curing	Clear/White/Other	1.01 ± 0.01	Sealing of indoor glass decoration and other uses.
RJ-M600-2	One-component, acid-curing	Clear/White/Other	0.98 ± 0.01	Sealing of indoor glass decoration and other uses.
RJ-M600-4	One-component, acid-curing	Clear/White/Other	0.95 ± 0.01	Sealing of indoor glass decoration and other uses.
RJ-M602-0	One-component, acid-curing	Clear/White/Other	1.01 ± 0.01	High humidity areas such as bath and kitchen rooms.
RJ-M602-2	One-component, acid-curing	Clear/White/Other	0.98 ± 0.01	High humidity areas such as bath and kitchen rooms.
RJ-M602-4	One-component, acid-curing	Clear/White/Other	0.95 ± 0.01	High humidity areas such as bath and kitchen rooms.

Neutral Silicone Sealants

RJ-M610-0	One-component, neutral-curing	Clear/White/Other	1.01 ± 0.01	Sealing of glass ceiling, door and window and other uses.
RJ-M610-2	One-component, neutral-curing	Clear/White/Other	0.98 ± 0.01	Sealing of glass ceiling, door and window and other uses.
RJ-M612-0	One-component, neutral-curing	Clear/White/Other	1.01 ± 0.01	High humidity areas such as bath and kitchen rooms.

RJ-M612-2	One-component, neutral-curing	Clear/White/Other	0.98 ± 0.01	High humidity areas such as bath and kitchen rooms.
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Silane Modified Polymer Sealants

RJ-MS-1	One-component, hybrid sealant	White/Black/Grey	1.5 ± 0.15	Paintable; Sealing of most materials; Excellent adhesion.
RJ-MS-2	One-component, hybrid sealant	White/Black/Grey	1.5 ± 0.15	Paintable; Sealing of most materials; Excellent adhesion.

Alkoxy Silicone Sealant

RJ-M660	One-component, neutral-curing (Alkoxy)	Clear/White/Other	1.01 ± 0.01	Sealing of glass ceiling, door and window and other uses.
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