PRODUCT INFORMATION

Coating Additive Brochure

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HANGZHOU RUIJIANG CHEMICAL CO.,LTD.

ABOUT RUIJIANG GROUP 01

Ruijiang Group was established in 1999, headquartered in Hangzhou city, China. 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 & painting, 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!

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TECHNOLOGY CENTER 01

In 2008, Ruijiang founded a product application R&D center with more than 30 R & D and QC person, and established a set of high standards of quality control procedures. Ruijiang also makes a strategic cooperative relationships with a number of renowned research institutions and universities to improve product quality constantly.

With 20 mainly master-degree technology R&D specialists, the R&D Department is responsible for the new product research and development and providing technical solutions to clients.

Equipped with more than 10 professional inspectors, Quality Testing Department assures customer' s high quality and high performance products. The lab has established long-term cooperation with several renowned colleges and scientific research institutions. We hire a number of chemical experts as company counselors, in order to keep our product and service among the forefront of the world.

CONTENT

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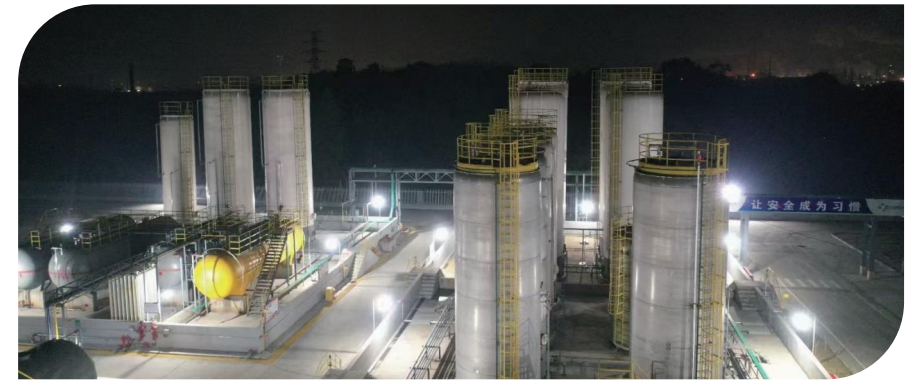


Wetting & Leveling Agent

Name	Composition	Active content	Solvent	Recommended for			Features & Benefits
				WB	SB	UV	
RC-L211	Organosiloxane copolymer	100%	-	●	●	●	Universal Wetting agent
RC-L231	Polyether modified silicone	100%	-	●			Excellent Wetting, Low foam
RC-L232	Polyether modified silicone	100%	-	●	●	●	Excellent Wetting , Low foam, slip
RC-L234	Polyether modified silicone	100%	-	●	●	●	Anti-crater, Scratch resistant and Anti-adhesion
RC-L236	Polyether modified silicone	100%	-	●			Wetting
RC-L237	Polyether modified silicone	100%	-	●			Wetting
RC-L239	Polyether modified silicone	100%	-	●		●	Wetting, good recoatability

Name	Composition	Active content	Solvent	Recommended for			Features & Benefits
				WB	SB	UV	
RC-L2391	Polyether modified silicone	100%	-	●			Wetting, Leveling
RC-L250	Acrylate-terminated polysiloxane	100%	-			●	Low foam, Slip, slightly Release
RC-L274	Siloxane-based gemini surfactant	100%	-	●	●	●	Wetting, Anti-crater, Defoaming
RC-L295	Nonionic surfactant	100%	-	●			Dynamic wetting, low foam tendecy
RC-L33	Polyether modified silicone	100%	-	●	●	●	Leveling, Slip, Scratch resistant, Anti-crater, High compatibility
RC-L330	Polyether modified silicone	50%	2-(2-Propoxyethoxy) ethanol		●		Medium surface tension and medium slip increase
RC-L336	Polyether modified silicone	100%	-	●	●		Leveling, Anti-crater, Slip

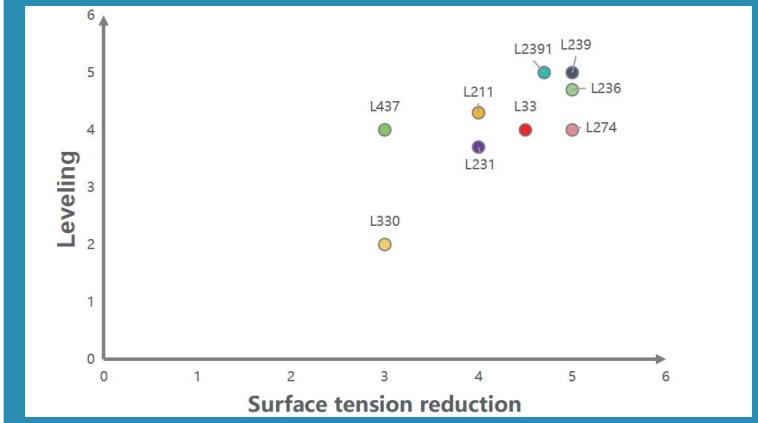
Wetting & Leveling Agent

02

Name	Composition	Active content	Solvent	Recommended for			Features & Benefits
				WB	SB	UV	
RC-L353	Acrylate copolymer	100%	-	●	●		Improve leveling effect;increase the surface tension of paint film
RC-L430	Modified polysiloxane	50%	Paraffin		●	●	Excellent Leveling, Low foam
RC-L437	Polyether modified silicone	100%	-	●	●	●	Provide Slip, gloss enhancement and leveling
RC-L470	Organic modified polysiloxane	25%	DPMA		●		Easy-to-clean effect
RC-L474	Special Modified Polysiloxane	100%	-	●	●		Leveling, Slip, Scratch resistant
RC-L476	Polyether modified silicone	15%	Naphtha		●		Wetting, Slip, Scratch resistant
RC-L477	Polyether modified silicone	100%	-	●	●	●	Wetting, Slip, Scratch resistant

How to select Leveling agents

Wetting and leveling agents are used to prevent or reduce surface defects like poor leveling, orange peel, craters or fat edge etc. These additives are surface active materials with a tendency to concentrate at the air coating interface, has good surface tension reduction properties.



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Defoamer

03

Name	Composition	Active content	Solvent	Recommended for									Features & Benefits
				Systems		Application							
				WB	SB	PU	Polyester	Acrylic	Alkyd	Epoxy	Phenolic	UV	
RC-C112	Organo siloxane Copolymer	100%	-	●		●		●					Universal defoamer, Good compatibility, easy to add
RC-C194	Acetylenic diol	50%	Ethylene glycol	●				●	●	●	●		Pigment and substrate wetting, Anti-crater, Low foam stability
RC-C135	Polyether modified silicone	55%	Water	●				●		●			Fast defoaming speed, strong defoaming power and few surface defects
RC-C7381	Polyether modified silicone	100%	-	●	●	●		●					Strong defoaming ability with low additive dosage
RC-C190	Mineral oil	100%	-	●				●	●				Strong defoaming, suitable for high viscosity latex system
RC-C652	Acrylic polymer	25%	Mineral oil		●	●			●	●	●	●	Break bubbles quickly without affecting interlayer adhesion
RC-C618	Organosiloxane copolymer	98%	-		●		●			●		●	Good anti-foaming effect

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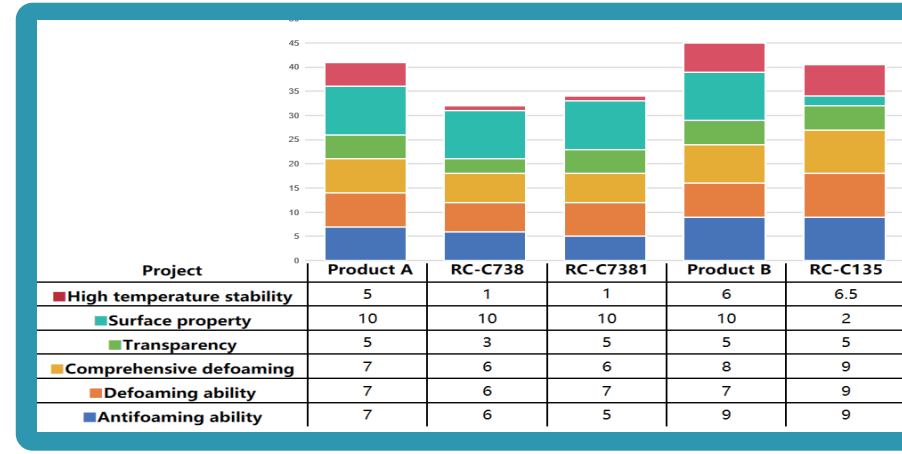
Defoamer

03

Name	Composition	Active content	Solvent	Recommended for									Features & Benefits
				Systems		Application							
				WB	SB	PU	Polyester	Acrylic	Alkyd	Epoxy	Phenolic	UV	
RC-C613	Foam breaking polymer and silicone blend	8%	Hydrocarbon mixture		●					●			Good deaeration speed
RC-C113	Polyethersiloxane copolymer with fumed silica	24%	Water		●	●		●					Especially suitable for airless spray formulations
RC-C131	Hydrophilic modified polysiloxane	25%	Water	●		●		●					Excellent defoaming ability



Project	Product A	RC-C738	RC-C7381	Product B	RC-C135
High temperature stability	5	1	1	6	6.5
Surface property	10	10	10	10	2
Transparency	5	3	5	5	5
Comprehensive defoaming	7	6	6	8	9
Defoaming ability	7	6	7	7	9
Antifoaming ability	7	6	5	9	9

HANGZHOU RUIJIANG CHEMICAL CO.,LTD RUISiL

Wetting&Dispersing Agent

04

Name	Composition	Active content	Solvent	Recommended for								Features & Benefits
				WB	Solvent-borne Systems			Decorative	Industrial	Colorant	Solvent free Systems	
					Non-Polar	Medium Polar	Polar					
RC-D175	Weak anionic high molecular weight Copolymers	40%	Water	●				●	●	●		Outstanding viscosity reduction effect with little impacton coating performance
RC-D319	Block Copolymers	40%	Water	●				●	●	●		Suitable for dispersing various organic and inorganic pigments, with excellent storage stability
RC-D371	Block Copolymers	100%	-	●				●	●	●		Good wetting ability, excellent ability of anti-sedimentation, anti-flocculation, floating color
RC-D372	High molecular weight dispersant	100%	-	●			●		●	●		APEO-free, the overall effect is slightly better than the original product
RC-D375	Block copolymer with acidic groups	40%	Solvent naphtha			●		●	●	●		Improve the wetting dispersing ability for the pigments and fillers, suitable for coil coating systems
RC-D377	Block Copolymers	100%	-	●				●	●	●		Good water solubility, not easy to foam, strong wetting effect, significantly improves grinding efficiency
RC-D518	Low molecular compound	100%	-		●	●	●	●	●			Especial for inorganic pigments, Decrease the system viscosity, Shorten the grinded time.

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Wetting&Dispersing Agent

04

Name	Composition	Active content	Solvent	Recommended for								Features & Benefits
				WB	Solvent-borne Systems			Decorative	Industrial	Colorant	Solvent free Systems	
					Non-Polar	Medium Polar	Polar					
RC-D520	Block copolymer with acidic groups	50%	Dibasic Esters			●		●	●	●		Excellent wetting disperse ability to the various organic pigments
RC-D521	Dispersant solution	50%	Ethylene Acetate			●		●	●		●	The first choice for dispersing titanium dioxide in solvent/solvent-free systems
RC-D522	Polycarboxylic acid and polysiloxane	50%	Solvent naphtha		●	●	●		●			Excellent effect on wetting dispersing pigments,can improve the flatting and touch feeling.
RC-D526	Block copolymer	30%	Dibasic Esters			●		●	●	●		Suitable for stabilizing carbon black and organic pigments, increasing gloss, color strength, transparency and hiding power of coatings
RC-D542	Block Copolymers	100%	-			●			●	●	●	Strong dispersing power, good compatibility and excellent store stability.
RC-D544	Polyester Multichain Dispersant	100%	-			●	●	●	●	●		Very strong dispersing power, good dispersing effect on carbon black and organic pigments
RC-D545	Phthalocyanine blue derivative	100%	-	●	●	●	●	●	●	●	●	As a synergist, it improves the effectiveness of dispersants, suitable for blue, green, and black pigments.

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Wetting&Dispersing Agent

04

Name	Composition	Active content	Solvent	Recommended for								Features & Benefits
				WB	Solvent-borne Systems			Decorative	Industrial	Colorant	Solvent free Systems	
					Non-Polar	Medium Polar	Polar					
RC-D546	Block Copolymers	30%	Dibasic Esters			●		●	●	●		Suitable for the dispersion of various organic pigments, especially for the dispersion of red and yellow pigments
RC-D547	Block Copolymers	50%	Water	●				●	●	●		Particularly suitable for carbon black and organic pigments, strongly reduces grindingviscosity, APEO free
RC-D570	Block polymer dispersant	50%	Dibasic Esters			●	●	●	●	●		It has strong adsorption capacity for various organic pigments, especially carbon black.
RC-D573	Block Copolymers	40%	Ethylene Acetate			●		●	●			Excellent wetting and dispersibility, reduces grinding viscosity and improves pigment filling

Other Additives

Name	Composition	Active content	Solvent	Recommended for			Features & Benefits
				WB	SB	UV	
RC-T16	Ultra-high molecular weightsilicone dispersion	60%	Water	●			Slip, Scratch resistant
RC-T19	Ultra-high molecular weightsilicone dispersion	80%	Water	●			Slip, Scratch resistant
RC-T21	Modified urea solution	50%	NMP		●		Rheology modifier
RC-T221	Modified urea solution	50%	NMP	●			Rheology modifier
RC-T48	Polysiloxane	100%	-	●	●	●	Anti-blocking
RC-T56	Organic modified polysiloxane	10%	Solvent naphtha		●		Hammer effect
RC-T70	Modified chlorinated polypropylene	25%	Water	●			Adhesion Promoter

Name	Composition	Active content	Solvent	Recommended for			Features & Benefits
				WB	SB	UV	
RC-T75	Special polyester	60%	Disester mixture		●		Adhesion Promoter
RC-T17	Hydroxyl terminated polysiloxane	100%	Disester mixture		●		High-temperature resistance and non-stick additive for ceramic coatings

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