

Solutions for Tomorrow

Additives & Resins for Paints & Coatings





KS Chemical's core essence is to give 'value and function' to paints and coatings and improve their performance.

We are constantly innovating and growing with our global customers in line with trends in the paint and coating market.

-Eunjung Yoo, CEO



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SOLVENT BORNE SYSTEM

Additives for Liquid Coatings



WE PROVIDE

multipurpose additives for liquid coatings that effectively enhance the product quality even at small dosages. Each additive is designed to achieve multifunctional performances in the final coatings, as well as offering sustainable solution and displaying high compatibility with different solvent borne systems.



Leveling Agent

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION		
Rheoflow® LP-1050	50%, Liquid		 Excellent flow and leveling properties Prevent surface defects such as craters, pinholes Good pick-up and recoatability 	 All solvent based baking systems All solvent based no baking systems		
Rheoflow® LP-4200 Rheoflow®	- 100%, Liquid	Acrylic copolymer	 Excellent flow and leveling properties Good adhesion and flexibility Good compatibility with other resins Prevent surface defects such as craters, pinholes, fish eyes, etc. 	High solid coatings and UV-coatings Powder coatings		
LP-4500			Good film appearance and recoatability			
Rheoflow® LP-2000	1%, Liquid	Combination of high b·p solvents	 Excellent flow and leveling properties Prevent surface defects such as craters, pinholes, blisters and orange peels Prevent boiling marks and improve leveling 	All solvent based baking systemsAll solvent based air drying systems		
Rheoflow® LP-2700	75%, Liquid	Acrylic copolymer	 Leveling agent with defoaming effect Prevent surface defects such as craters, pinholes, fish eyes, etc. 	Coil coatings		
Rheoflow® LP-2745	45%, Liquid				Good compatibility with other resinsGood film appearance and recoatability	General industries
Rheoflow® LP-5400			 Improve leveling properties Prevent surface defects such as crater Leveling agent with defoaming effect Does not interfere with intercoat adhesion 	 Polyurethane coatings Two-pack epoxy compounds Air-dried alkyd systems Especially suitable for stoving enamel based on acrylic, alkyd, polyester resins 		
Rheoflow® LP-5500	50%, Liquid		Excellent flow and leveling propertiesGood pick-up and recoatability	All solvent based baking systemsAll solvent based no baking systemsAcryl/Urethane, Epoxy		
Rheoflow® LP-5800			 Excellent flow and leveling properties Improve gloss Thermally stable Does not interfere with recoatability or intercoat adhesion 	 Automotive OEM coatings All solvent based baking systems All solvent based no baking systems Solvent free systems 		



Wetting & Dispersing Agent

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® DS-360	50%, Liquid	Salt of unsaturated polyamine amides and acidic polyesters	 Reduce dispersion time Stabilize the pigment dispersion Decrease pigment sedimentation Increase gloss and improve flow Improve storage stability 	Architectural coatingsIndustrial coatingsFurniture coatingsBentonite pastes
Rheoflow® DS-363	45%, Liquid	High molecular weight block copolymers with pigment affinity groups	 Achieve high gloss due to the small particle sizes of the deflocculated pigments Improve color strength Increase transparency Increase hiding power Deflocculate pigments and stabilize them by means of steric hindrance 	 Industrial coatings Automotive OEM & refinish coatings Coil coatings Wood coatings Architectural coatings Pigment concentrates
Rheoflow® DS-376	100%, Liquid	Ethoxylate phosphate	Wetting and dispersing carbon blacks Suitable for stabilizing organic pigments and acidic/neutral carbon blacks	 Pigment concentrates Plasticizers Unsaturated polyester PVC Plastisols PU floorings and foam
Rheoflow® DS-425	80%, Liquid	Modified acrylic copolymer	 Excellent deaerating power during paint manufacturing and mixing process Excellent wetting and dispersing effect on fillers and pigments Good flow and leveling properties Good film appearance and recoatability 	 Unsaturated polyester and UV-curing coatings Putties, high fillers loading systems, etc. High viscosity coatings UV curing coating systems



Releasing Agent for Plastic

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® KMA-125	100%, Liquid	The complex mixture of fatty amines with copolymers of organic phosphate esters and fatty acids	 Internal Releaser for Pultrusions of unsaturated polyester, vinyl ester, etc. Universal wetting and dispersing additive for mold applications 	An internal lubricant for Pultrusion, SMC, BMC and RTM of the thermosetting resins rubber and thermoplastic resins, etc.



Defoamer

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION		
Rheoflow® AF-600	<1%, Liquid		 Excellent deaerating power during paint manufacturing and painting Does not interfere with intercoat adhesion and transparency Hardly cause surface defects such as craters, pinholes, orange peel, etc. Good defoaming persistence 	• Enamel		
Rheoflow® AF-630	<3%, Liquid	Modified silicone			 Excellent deaerating power during paint manufacturing and mixing process Excellent defoaming control effect on coatings Does not interfere with recoatability or intercoat adhesion 	Heavy duty coatings
Rheoflow® AF-660	<1%, Liquid		 Excellent deaerating power during paint manufacturing and painting Does not interfere with intercoat adhesion and transparency Hardly cause surface defects such as craters, pinholes, orange peel, etc. Good defoaming persistence 	Two-pack epoxy and two-pack polyurethane systems		
Rheoflow® AF-750	20%, Liquid			 Alkyd/Melamine, Alkyd/Urethane Acryl/Melamine, Urethane/ Melamine, Polyester/Melamine, etc. 		
Rheoflow® AF-754	25%, Liquid	Acrylic copolymer	 Excellent deaerating power during paint manufacting and mixing process Good flow and leveling properties Prevent surface defects such as craters, pinholes, fish eyes, etc. Good film appearance and recoatability 	 High viscosity coatings Epoxy heavy duty paintings and floor coatings based on Urethane or Epoxy Unsaturated polyester film coatings and gel coatings Putties, high fillers loading systems, 		
Rheoflow® AF-770	30%, Liquid			etc. • Artificial marble, unsaturated resins • UV coatings		



Acid Catalyst

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Hicure® AC-100	50%, Liquid	Amine salt of alkylbenzene sulfonic acid	 Fast cure & low curing temperature Excellent hardness, gloss, humidity resistance and corrosion resistance Good mechanical properties Good solubility with resins and solvents 	 All solvent based baking systems Melamine, Urea
Hicure® AC-250	32%, Liquid	Amine salt of p-Toluenesul- fonic acid (p-TSA)	 Fast cure & low curing temperature Good cure and viscosity stability Water soluble and high solids coating application Excellent durability 	Automotive, coil coatings, general industries, appliances, etc.

Solvent Borne System

Rheology Modifier

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® SCR 430BX-40	40%, Liquid	Urea-modified acrylic resin	 Excellent metallic orientation effect Good adhesion and chipping resistance Excellent sagging control 	 Automotive OEM high solids metallic base coats for wet-on-wet application Aluminium orientation
Rheoflow® ASA 410DM-50	52%, Liquid	Urea-modified solution	 Strong thixotropic behavior Pseudo-plastic and thixotropic rheology prevent settling and sagging Recommended usage is mainly medium polarity systems Good chemical resistance and weather resistance 	 Industrial coatings Traffic coatings PUR-systems Zinc-rich coatings and fillers, heavy duty coatings



Additive to increase the Conductivity

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® EC-180	70%, Liquid	Solution of an alkylolammonium salt of an unsaturated acidic carboxylic acid ester	Increase the electrical conductivity	 Electrostatic spray coatings Automotive interior coatings Automotive bumper coatings

WATER BORNE SYSTEM

Additives for Liquid Coatings



WE COOPERATE

on the development of water borne systems, which are considered eco-friendly and advanced coating technologies. We are ready to collaborate to meet the needs of our customers with our extensive experience of water borne systems.



Wetting & Dispersing Agent

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® DW-104	100%, Liquid	Allegandata	Wetting and foam control agentStrong pigment dispersion	 Electrodeposition coatings Water based coatings
Rheoflow® DW-104BC	50%, Liquid	Alkoxylate	Perfect defoaming and appropriate anti-foaming effect	Architectural coatings Printing inks

Water Borne System

Anti-crater & Dispersing Agent for ED Coatings

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® ACW-4040	40%, Liquid (Water)	Modified acrylic copolymer	 Good flow and leveling properties Good film appearance and recoatability Excellent wetting and dispersing effect on fillers and pigments Excellent anti-cratering effect on the coated film 	 ED-paints Anionic & Cationic coatings Water based coatings Urethane, Acrylic, Epoxy, Polyester, Alkyd, etc. Water based inks

Water Borne System

Plasticizer for ED Coatings

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® DW-1000	>90%, Liquid	Ethylene oxide modified organic compound	Improve film thicknessPrevent surface defectsVOC abatement	ED-paintsAnionic & Cationic coatingsWater based inks

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Additives for Powder Coatings



OUR RHEOFLOW®

Flow & Leveling agent product series effectively eliminates surface defects such as craters, fish-eyes and orange peels as well as significantly reinforcing the intercoat adhesion, recoatability and contamination resistance through enhanced substrate wetting/tension.

Leveling Agent with Silica

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION	
Rheoflow® PLP-100					
Rheoflow® PLP-100H					
Rheoflow® PLP-200					
Rheoflow® PLP-560	1000	Acrylic	Excellent flow and leveling properties Prevent surface defects such as	Powder coatings	
Rheoflow® PLP-600	100%, Powder	conclymer	copolymer	olymer craters, pinholes, fish eves, etc Ac	- Acrylic, Epoxy, Polyester - Urethane & Hybrid systems
Rheoflow® PLP-650			Excellent UV and weather resistance		
Rheoflow® PLP-770					
Rheoflow® PLP-850					

Leveling Agent for Masterbatch

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® LP-4000				
Rheoflow® LP-5000	100%,	Acrylic	 Excellent flow and leveling properties Prevent surface defects such as craters, pinholes, fish eyes, etc. 	Powder coatings Acrylic, Epoxy, Polyester Urethane & Hybrid systems
Rheoflow® LP-6000	Liquid	copolymer	Good recoatabilityGood adhesion and flexibilityCompatible with other resins	Printing inksHigh solid coatings & UV-coatings
Rheoflow® LP-8000			Sompatible with other resilis	

Resins/ Polymer



WE SUPPLY

synthetic resins for Automotive, Refinish, PCM, and general industrial coatings application. Resins or Polymer are the key component of coatings allowing adhesion to a substrate, binding pigments and extenders together and determining important properties of durability, flexibility and gloss of the finished products.

Blocked Isocyanate

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	DISSOCIATION TEMP.	FEATURES	APPLICATION
Hiblock® BI-160	60%, Liquid	Blocked aliphatic polyisocyanate based on hexamethylene diisocyanate trimer solution	90~100℃		
Hiblock® BI-160B				 Fast cure & low curing temperature Good flexibility and adhesion Good chipping resistance and mechanical properties Excellent weather resistance 	 One component baking systems with hydroxyl functional reactants Alkyd, Acrylic, Polyester, Polyurethane, Epoxy, etc. Coil coatings, can coatings, general industries, appliances, automotive coatings, etc.
Hiblock® BI-175	75%, Liquid		140~150℃		
Hiblock® BI-180			120~130℃		

Let's work together and make something great.



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