

Rheoflow®

Solutions for Tomorrow

ADDITIVES & RESINS
for Paints & Coatings



KS Chemical

KS Chemical

is a company specializing
in the manufacture of
*high performance coating
additives and resins* in
extensive ranges developed
by our own unique and
differentiated technology
supplying into global markets.

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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 & water borne systems.

Solvent
Borne
System

Leveling Agent

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® LP-1050	50%, Liquid	Acrylic copolymer	<ul style="list-style-type: none"> • Excellent flow and leveling properties • Prevent surface defects such as craters, pinholes • Good pick-up and recoatability 	<ul style="list-style-type: none"> • All solvent based baking systems • All solvent based no baking systems
Rheoflow® LP-4200	100%, Liquid		<ul style="list-style-type: none"> • Excellent flow and leveling properties • Good adhesion and flexibility • Good compatibility with other resins 	<ul style="list-style-type: none"> • High solid coatings and UV-coatings • Powder coatings
Rheoflow® LP-4500			<ul style="list-style-type: none"> • Prevent surface defects such as craters, pinholes, fish eyes, etc. • Good film appearance and recoatability 	
Rheoflow® LP-2000	1%, Liquid	Combination of high b·p solvents	<ul style="list-style-type: none"> • Excellent flow and leveling properties • Prevent surface defects such as craters, pinholes, needles, blisters and orange peels • Prevent boiling marks and improve leveling 	<ul style="list-style-type: none"> • All solvent based baking systems • All solvent based air drying systems
Rheoflow® LP-2700	75%, Liquid	Acrylic copolymer	<ul style="list-style-type: none"> • Excellent flow and leveling properties • Prevent surface defects such as craters, pinholes, fish eyes, etc. 	<ul style="list-style-type: none"> • Coil coatings • General industries
Rheoflow® LP-2745	45%, Liquid		<ul style="list-style-type: none"> • Good compatibility with other resins • Good film appearance and recoatability 	
Rheoflow® LP-5400	50%, Liquid		<ul style="list-style-type: none"> • Improve leveling properties • Prevent surface defects such as crater • Act as a defoamer and deaeration aid • Does not interfere with intercoat adhesion 	
Rheoflow® LP-5500		<ul style="list-style-type: none"> • Excellent flow and leveling properties • Good pick-up and recoatability 	<ul style="list-style-type: none"> • All solvent based baking systems • All solvent based no baking systems • Acryl/Urethane, Epoxy 	
Rheoflow® LP-5800		<ul style="list-style-type: none"> • Excellent flow and leveling properties • Improve gloss • Thermally stable • Does not interfere with recoatability or intercoat adhesion 	<ul style="list-style-type: none"> • Automotive OEM coatings • All solvent based baking systems • All solvent based no baking systems • Solvent free systems 	

Solvent
Borne
System

Wetting & Dispersing Agent

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® DS-360	50%, Liquid	Salt of unsaturated polyamine amides and acidic polyesters	<ul style="list-style-type: none"> • Reduce dispersion time • Stabilize the pigment dispersion • Decrease pigment sedimentation • Increase gloss and improve flow • Improve storage stability 	<ul style="list-style-type: none"> • Architectural coatings • Industrial coatings • Furniture coatings • Bentonite pastes
Rheoflow® DS-363	45%, Liquid	High molecular weight block copolymers with pigment affinity groups	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Industrial coatings • Automotive OEM & refinish coatings • Coil coatings • Wood coatings • Architectural coatings • Pigment concentrates
Rheoflow® DS-376	100%, Liquid	Alkylammonium salt of a high molecular weight copolymer	<ul style="list-style-type: none"> • Recommended for stabilizing organic pigments and, in particular, acidic and neutral carbon blacks as well as for wetting carbon fibers 	<ul style="list-style-type: none"> • Pigment concentrates • Plasticizers • Unsaturated polyester • PVC Plastics • PU floorings and foam
Rheoflow® DS-425	80%, Liquid	Modified acrylic copolymer	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Unsaturated polyester and UV-curing coatings • Sanding sealers, putties, high fillers loading systems, etc. • High viscosity coatings • UV curing coating systems

Solvent
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System

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	<ul style="list-style-type: none"> • Internal Releaser for Pultrusions of unsaturated polyester, vinyl ester, etc. • Universal wetting and dispersing additive for mold applications. 	<ul style="list-style-type: none"> • An internal lubricant for Pultrusion, SMC, BMC and RTM of the thermosetting resins rubber and thermoplastic resins, etc.

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System

Defoamer

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® AF-600	1%, Liquid	Modified silicone	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Enamel, Alkyd/Melamine, Alkyd and self-crosslinking acrylate • Epoxy flooring
Rheoflow® AF-630	<3%, Liquid		<ul style="list-style-type: none"> • Excellent deaerating power during paint manufacturing and mixing process • Excellent defoaming control effect on coatings • Does not interfere with recoatability or intercoat adhesion 	<ul style="list-style-type: none"> • Chlorinated rubber, Epoxy, two-pack polyurethane systems • Enamel, Alkyd/Melamine, Alkyd and self-crosslinking acrylate • Air drying systems based on acrylic, vinyl or chlorinated polymer
Rheoflow® AF-660	<1%, Liquid		<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Two-pack epoxy and two-pack polyurethane systems • Enamel, Alkyd/Melamine, Alkyd and self-crosslinking acrylate
Rheoflow® AF-750	20%, Liquid	Acrylic copolymer	<ul style="list-style-type: none"> • Excellent deaerating power during paint manufacturing and mixing process • Good flow and leveling properties • Prevent surface defects such as craters, pinholes, fish eyes, etc. • Good film appearance and recoatability 	<ul style="list-style-type: none"> • Alkyd/Melamine, Alkyd/Urethane, oil-free alkyd, etc. • Acryl/Melamine, Urethane/Melamine, Polyester/Melamine, etc.
Rheoflow® AF-754	25%, Liquid			<ul style="list-style-type: none"> • High viscosity coatings • Epoxy heavy duty paintings and floor coatings based on Urethane or Epoxy • Unsaturated polyester film coatings and gel coatings
Rheoflow® AF-770	30%, Liquid			<ul style="list-style-type: none"> • Sanding sealers, putties, high fillers loading systems, etc. • Artificial marble, unsaturated resins • UV coatings

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Acid Catalyst

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Hicure® AC-100	50%, Liquid	Amine salt of alkylbenzene sulfonic acid	<ul style="list-style-type: none"> • Fast cure & low curing temperature • Excellent hardness, gloss, humidity resistance and corrosion resistance • Good mechanical properties • Good solubility with resins and solvents 	<ul style="list-style-type: none"> • All solvent based baking systems • Alkyd, Acrylic, Polyester and Epoxy with amino crosslinking agents including melamine, urea • Automotive, coil coatings, general industries, appliances, etc.
Hicure® AC-250	32%, Liquid	Amine salt of p-Toluenesul- fonic acid (p-TSA)	<ul style="list-style-type: none"> • Fast cure & low curing temperature • Good cure and viscosity stability • Water soluble and high solids coating application • Excellent durability 	

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Rheology Modifier

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® SCR 430BX-40	40%, Liquid	Urea-modified acrylic resin	<ul style="list-style-type: none"> • Excellent metallic orientation effect • Good adhesion and chipping resistance • Excellent sagging control 	<ul style="list-style-type: none"> • Automotive OEM medium and high solids metallic base coats for wet-on-wet application • Aluminium orientation
Rheoflow® SCR 800KX-50	50%, Liquid	Urea-modified polyester resin	<ul style="list-style-type: none"> • Excellent sagging control • Good chemical resistance and weather resistance • Good adhesion and flexibility • Does not interfere with intercoat adhesion 	<ul style="list-style-type: none"> • Automotive base & middle coats • Rheology control agent
Rheoflow® ASA 410DM-50	52%, Liquid	Urea-modified solution	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Industrial coatings • Traffic coatings • PUR-systems • Systems containing aluminum and pearlescent pigments • Zinc-rich coatings and fillers, primer surfacers

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Adhesion Promoter

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® ADH-630	56%, Liquid	Free acid of complex carboxyl phosphate ester	<ul style="list-style-type: none"> • Excellent adhesion • Improve flexibility • Improve corrosion resistance 	<ul style="list-style-type: none"> • Acrylic melamine, solvent and water based coatings • Polyester melamine, solvent and water based coatings • Alkyd, thermosetting, solvent and water based coatings • Epoxy, solvent and water based coatings • Acid-cured primers

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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	<ul style="list-style-type: none"> • Increase the electrical conductivity 	<ul style="list-style-type: none"> • Electrostatic spray coatings • Automotive interior coatings • Automotive bumper coatings

Water
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Wetting & Dispersing Agent

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® DW-104	100%, Liquid	Alkoxylate	<ul style="list-style-type: none"> • Wetting and foam control agent • Strong pigment dispersion • Perfect defoaming and appropriate anti-foaming effect 	<ul style="list-style-type: none"> • Electrodeposition coatings • Water based coatings • Architectural coatings • Printing inks
Rheoflow® DW-104BC	50%, Liquid			

Water
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Adhesion Promoter

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® ADH-630	56%, Liquid	Free acid of complex carboxyl phosphate ester	<ul style="list-style-type: none"> • Excellent adhesion • Improve flexibility • Improve corrosion resistance 	<ul style="list-style-type: none"> • Acrylic melamine, solvent and water based coatings • Polyester melamine, solvent and water based coatings • Alkyd, thermosetting, solvent and water based coatings • Epoxy, solvent and water based coatings • Acid-cured primers

Water
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Plasticizer for ED Coatings

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® DW-1000	>90%, Liquid	Ethylene oxide modified organic compound	<ul style="list-style-type: none"> • Improve film thickness • Prevent surface defects • VOC abatement 	<ul style="list-style-type: none"> • ED-paints • Anionic & Cationic coatings • Water based inks

Water
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Anti-crater & Dispersing Agent for ED Coatings

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® ACW-4040	40%, Liquid (Water)	Modified acrylic copolymer	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • ED-paints: Anionic & Cationic coatings • Water based coatings: Urethane, Acrylic, Epoxy, Polyester, Alkyd, etc. • Water based inks

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	100%, Powder	Acrylic copolymer with silica	<ul style="list-style-type: none"> • Excellent flow and leveling properties • Prevent surface defects such as craters, pinholes, fish eyes, etc. • Good recoatability • Excellent UV and weather resistance 	<ul style="list-style-type: none"> • Powder coatings <ul style="list-style-type: none"> - Acrylic, Epoxy, Polyetser - Urethane & Hybrid systems
Rheoflow® PLP-100H				
Rheoflow® PLP-200				
Rheoflow® PLP-560				
Rheoflow® PLP-600				
Rheoflow® PLP-650				
Rheoflow® PLP-770				
Rheoflow® PLP-850				

Leveling Agent for Masterbatch

PRODUCT	SOLID(WT%), FORM	CHEMICAL TYPES	FEATURES	APPLICATION
Rheoflow® LP-4000	100%, Liquid	Acrylic copolymer	<ul style="list-style-type: none"> • Excellent flow and leveling properties • Prevent surface defects such as craters, pinholes, fish eyes, etc. • Good recoatability • Good adhesion and flexibility • Compatible with other resins 	<ul style="list-style-type: none"> • Powder coatings <ul style="list-style-type: none"> - Acrylic, Epoxy, Polyetser - Urethane & Hybrid systems • Printing inks • High solid coatings & UV-coatings
Rheoflow® LP-5000				
Rheoflow® LP-5100				
Rheoflow® LP-6000				
Rheoflow® LP-8000				

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 °C	<ul style="list-style-type: none"> • Fast cure & low curing temperature • Good flexibility and adhesion • Good chipping resistance and mechanical properties • Excellent weather resistance 	<ul style="list-style-type: none"> • One component baking systems with hydroxyl functional reactants - Alkyd, Acrylic, Polyetser, Polyurethane, Epoxy, etc. • Coil coatings, can coatings, general industrial coatings, appliances, automotive coatings, etc.
Hiblock® BI-175	75%, Liquid		140~150 °C		
Hiblock® BI-180			120~130 °C		

Let's work together
and make
something great.



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