



TOTAL SOLUTION FOR THE COATINGS AND INKS INDUSTRY

PROVIDES INDUSTRY TOTAL
SOLUTION

Shanghai Kastar Chemical Co.,Ltd.



COMPANY PROFILE

Kastar (Shanghai) Chemical Co., Ltd., founded in 2006, is a specialty chemical supplier focused on integrated industry solutions. Core businesses cover four major sectors: coatings & inks, adhesives & sealants, surface treatment, and chemical fibers.

The company operates a 3,000m² Application Technology Center with six R&D platforms and a technical team of over 20 members. Through a closed-loop approach of "equipment investment + experimental validation + technological iteration," we deliver efficient integrated solutions. We provide customized support from raw materials to applications, enabling full industrial chain empowerment beyond single-product supply.

Simultaneously, Kastar specializes in silane research. Leveraging our Adhesion Promotion Laboratory, we develop diverse solutions for multi-system and difficult-to-bond substrates, effectively resolving adhesion failures. As adhesion promotion experts, we maintain unique competitiveness in the chemical industry.

Kastar has established a comprehensive service network with ten domestic offices. 90% of clients enjoy two-hour response service. We also expanded into Southeast Asia with subsidiaries in Thailand, Vietnam, Indonesia, and Malaysia. Recognized for professionalism and integrity, we serve as premium distributor for global leaders including Milliken & Company and Dow. Upholding the philosophy "Small victories depend on wisdom; great victories depend on virtue," Kastar eagerly anticipates collaboration across industries!





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Milliken is a global leader in manufacturing, focusing on materials science. Its spirit of continuous breakthroughs has created numerous cutting-edge achievements, products that improve people's lives, and innovative solutions for customers and communities.

borchers
A MILLIKEN BRAND

Founded in 1807, Borchers is a global producer of specialty chemicals. Borchers is renowned for its innovative high-performance coating additives and special catalyst solutions, with a rich variety of cobalt free driers, dispersants, rheological modifiers, wetting agents, polymerization catalysts and other product lines. In various fields such as coatings, inks, adhesives, leather, rubber tires, composite materials, etc., it provides customers with environmentally friendly solutions that align with sustainable development concepts.

Wetting & Dispersing Additives

Borchi® Gen dispersants are high-performance additives designed to disperse organic and inorganic pigments. Benefits include better pigment wetting resulting in lower grind times, improved color strength and improved transparency.

Borchers additive	System*	Chemical Composition	Activity%	Description
Borchi® Gen 0851	W	Polyurethane	50% in water	*VOC- and APEO-free; specially designed for dispersing difficult organic pigments and carbon black in water-based systems. *Provides low viscosity dispersions, high transparency with organic pigments, high jetness with carbon black and long-term dispersion stability .
Borchi® Gen WNS	W	Low molecular weight polyether modified compounds	90% in water	*VOC- and APEO-free; recommended for water- or glycol-based universal tinting pastes. *Provides strong color development with organic pigments and improved storage stability.
Borchi® Gen 12	W/S	Low molecular weight polyether modified compounds	100%	*VOC- and APEO-free; recommended for systems based on CAB and nitrocellulose. *Improves pigment wetting and dispersion time and has OH functionality that can be covalently bonded in cross-linked or two-component water- and solvent-based coating systems.
Borchi® Gen AP	W/S	Phosphoric acid ester polycondensate	100%	*Improves pigment wetting of inorganic pigments and fillers.
Borchi® Gen 0451	W/S	Polyurethane	100%	*VOC- and APEO-free; specially designed for dispersing difficult to disperse organic pigments and carbon black in water- and solvent-based systems. *Provides low viscosity dispersions, high transparency with organic pigments, high jetness with carbon black and long-term dispersion stability.
Borchi® Gen 1252	W/S	Acrylic ester copolymer	100%	*VOC- and APEO-free; non-ionic. *Especially suitable for wood coatings, decorative coatings, industrial coatings and pigment concentrates with organic and inorganic pigments.
Borchi® Gen 5113	S	Polyurethane polymer	45%	*Good compatibility in solvent borne coating systems. *Excellent grinding and dispersing performance for carbon black and organic pigments. *Can increase the pigment loading, while keeping low viscosity, good flow, and long-term storage stability .
Borchi® Gen 0755	W/S	Polyurethane	100%	*VOC- and APEO-free; recommended for dispersing difficult organic pigments and carbon black in solvent-based systems; broad compatibility; can be used in nitrocellulose. *Provides low viscosity dispersions, high transparency with organic pigments, high jetness with carbon black and long-term dispersion stability.
Borchi® Gen 1051	S	Polyurethane	45% in BAC/MPA	*Specially designed for dispersing organic blue, green and red pigments in solvent-based systems. *Provides low viscosity dispersions, high transparency and long-term dispersion stability.
Borchi® Gen 1750	W	Polyurethane	40% in water	*VOC-free; specially designed for transparent and opaque iron oxides, inorganic pigments and extenders in water-based systems. *Small particle size dispersions produce high transparency, and low viscosity grinds allow up to 40 % pigment loading with transparent oxide pigments and over 60 % with opaque iron oxides.

Borchi® Gen 5116	W/S	Phosphate ester	100%	*Excellent grinding and dispersing performance. Increased pigment loading. Decreased grinding viscosity, increasing flow and storage stability.
Borchi® Gen 1757	W/S	Copolymer with pigment affinic groups	100%	*VOC-free; hybrid wetting and dispersing additive providing a combination of various principles of pigment stabilization. *Produces vibrant color and superior opacity with a wide range of bismuth vanadate pigments.
Borchi® Gen 5290	W	High Molecular Weight Block Copolymer	40%	*Free of organic solvents, suitable for waterborne coatings and printing inks. *Excellent dispersing performance for carbon black and organic pigments in either grinding resin or resin-free systems. *Provide excellent dispersibility, effectively reduce system viscosity, enhance flow, and improve storage stability.
Borchi® Gen 5352	W/S	Acrylate Copolymer	100%	*Good dispersing performance for organic, inorganic and carbon black pigments. *Excellent with titanium dioxide pigments providing high tint strength and contrast ratio. *Strong affinity to iron oxide pigments resulting in stable dispersions with excellent color development. *High gloss.
Borchi® Gen 5112	S	PU(Polyurethane)	40%-50%	*Excellent grinding and dispersing performance for carbon black and organic pigments. *Effectively decreases the grinding viscosity. *Excellent jetness and color development. *Good compatibility and stability in coating systems.
Borchi® Gen 5313	W/S	Acrylate Copolymer	100%	*Effectively decreases grinding viscosity and thixotropy behavior. *Enhanced stability in coating systems. *Increased tinting strength. *Higher gloss and decreased haze in coatings.

Rheology Modifiers

Borchi® Gel additives are associative and non-associative rheology modifiers for water-based coatings that have a significant influence on the storage stability and application properties of the coatings system. Benefits include a full range of low to high shear polyurethane, acrylic and zirconium complex thickeners to ensure optimal flow and leveling combined with anti-sag performance.

Borchers additive	System*	Chemical Composition	Activity%	Description
Polyurethane (PU) Based Associative Thickeners				
Borchi® Gel 0620	W	Low shear/very strongly pseudoplastic	40% in water/ butyl glycol (40% PU)	*Tin- and APEO-free; develops viscosity stability and improves rheological properties mainly in the lower shear range for water-based systems. *Enables the application of thick layers on vertical surfaces, effectively prevents sagging and does not yellow or cause chalking in the cured film.
Borchi® Gel 0621	W	Low shear very strong pseudoplasticity	30% in water (20% PU)	*Tin-, VOC- and APEO-free; develops viscosity stability and improves rheological properties mainly in the low shear range for water-based systems. *Enables application of thick layers on vertical surfaces, effectively prevents sagging and does not yellow or cause chalking in the cured film.
Borchi® Gel 0630	W	Low shear/very strongly pseudoplastic	25% in (2-me- thoxy-methyle- thoxy) propanol + 1.2 Propanediol	*Tin-, APEO- and butyl glycol-free; easy incorporation into coating. *Enables application of thick layers on vertical surfaces, effectively prevents sagging and does not yellow or cause chalking in the cured film.
Borchi® Gel PW 25	W	Low shear/strongly pseudoplastic	25% in water/ 1,2 Propanediol (25% PU)	*Emulsifier-free; exceptionally good thickening properties in most fine particle dispersion binders with low emulsifier content in water-based systems. *Promotes longer open times than normal due to its high capacity for water retention.
Borchi® Gel 0625	W	Medium shear/ pseudoplastic	34% in water (25% PU)	*VOC- and APEO-free; develops viscosity stability and improves rheological properties mainly in the medium and high shear range for water-based systems. *Improves storage stability, leveling and application properties.

Borchi® Gel L75 N	W	Medium shear/ pseudoplastic	50% in water (25% PU)	*VOC- and APEO-free; develops viscosity stability in water-based coatings mainly in the medium shear range; good pigment wetting properties. *Improves properties for easier brush and roller application and does not yellow or cause chalking in the cured film.
Borchi® Gel 0434	W	High shear/Newtonian	20% in water (20% PU)	*VOC- and APEO-free; recommended for latex dispersions and water-based coating systems in the high shear range. *Improves brush drag (ICI viscosity), reduces spattering during roller application, and imparts superior flow and leveling.
Borchi® Gel 0435	W	High shear/Newtonian	50% in water (30% PU)	*APEO-free; develops outstanding brush and roll application properties and high shear thixotropy for water-based systems. *Produces viscosity stability mainly in the higher shear range.

Borchers additive	System*	Chemical Composition	Activity%	Description
Other Rheology Modifiers				
Borchi® Gel A LA	W	Low shear/strongly pseudoplastic	10% anionic acrylate polymer in water	*APEO-free; improves flow and leveling properties of water-based coating systems mainly in high gloss emulsions. *Builds viscosity in the low shear range and swells water in the coating rather than associating it with binders.
Borchi® Gel 0800	W	Low shear/strongly pseudoplastic	10% anionic acrylate polymer in water	*APEO- and tin-free; highly effective Alkali swellable emulsion (ASE) thickener for a wide range of water-based coatings. *Builds viscosity in the low shear range.
Borchi® Gel PN	W	Low shear/strongly pseudoplastic	Zirconium complex neutralized with ammonia	*Additive for use in water-based coating systems whose binders contain free hydroxyl and carboxyl groups. *Develops viscosity in the low shear range; prevents sagging and settling; improves viscosity stability of a coating after tinting with universal colorants; no need for biocides.

Flow & leveling additives

Borchi® Gol high-performance flow and leveling additives are modified polydimethylsiloxane (PDMS) and acrylic additives which reduce the surface tension of the coating to improve flow, substrate wetting and slip. Benefits include elimination of surface defects such as fish eyes and cratering. Many surface defects are related to surface tension, and by correcting the surface tension of a system, most surface defects can be resolved.

Borchers additive	System*	Chemical Composition	Activity%	Description
Borchi® Gol 1375	W/S	Silicone-free mixture of ethoxylated alcohols and surfactants	88%	*VOC- and APEO-free; recommended for challenging surfaces and dirty substrates in water- and solvent-based systems. *Provides reductions in surface tension, improvements in the wetting process and low-foaming tendencies in formulations.
Borchi® Gol LA 2 LC	W/S	Polyether Modified Polysiloxane(PDMS)	100%	*Lowers surface tension in a wide range of formulated systems. *Inhibits formation of surface defects. *Provides mar and scratch resistance. *Increased block resistance. *Improves final film appearance. *VOC-free.
Borchi® Gol 5745	W	Polyether Modified Polysiloxane(PDMS)	100%	*Significantly improves substrate wetting. *Excellent anti-cratering performance. *Enhance flow and leveling. *Good recoatability.
Borchi® Gol OL 17 LC	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	*VOC-free; universal flow promoter with very good compatibility. *Improves slip and prevents cratering.
Borchi® Gol 8701	S	Silicone-free	50% in methoxypropyl acetate	*Specially designed for solvent-based coating systems. *Provides improvement in substrate wetting and flow, as well as excellent slip without inter-coat adhesion interference.

Borchi® Gol 1473	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	*VOC-free; recommended for top coats that are cured at room temperature and below 150 °C in solvent- and water-based systems, as well as solvent-free systems. *Provides improvements in surface smoothness by reducing orange peel and preventing the formation of craters.
Borchi® Gol PL	S	Solvent-free phenyl modified polysiloxane (PDMS)	100%	*VOC-free; eliminates craters and other surface defects characterized by poor flow in can and coil coatings; stable up to 300 degrees. *Effective flow promoter and compatible with numerous organic binders.
Borchi® Gol 5893	W/S	Polyether Modified Polysiloxane(PDMS)	100%	*Significantly decreases the surface tension of the system. *Improves the surface slip of the coating film. *Enhances flow and leveling and improves anti-blocking properties. *Good compatibility and low risk of cloudiness. *Improves substrate wetting and prevents cratering.
Borchi® Gol LAC 80	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	*VOC-free; provides excellent flow and a clear increase in the surface smoothness of paint films; good block resistance. *Prevents crater formation and largely prevents bleeding in hammer finishes.
Borchi® Gol LA 232	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	*VOC-free; provides reductions in surface tension, increases in surface slip and improvements in block and scratch resistance. *Quickly removes air bubbles from applied films to provide smooth surfaces.
Borchi® Gol LA 200	W/S	Solvent-free polyether modified polysiloxane (PDMS)	100%	*VOC-free; provides improvements in substrate wetting and block and scratch resistance. *Quickly removes air bubbles from applied coated surfaces and avoids micro foam formation at all production stages.

Defoamers

Borchers offers high-performance modified polydimethylsiloxane (PDMS) and non-silicone defoamers for water- and solvent-based coating and paint systems. Our products eliminate foaming in the pumping, stirring, and grinding processes during production as well as the formation of foam when brushing, rolling, or spraying upon application.

Borchers additive	System*	Chemistry	Activity%	Description
Borchi® Gol 5611	W	Polyether-modified silicone	50%	*Excellent dynamic defoaming, antifoaming performance, and good binder compatibility. *High efficiency at low dosage.
Borchi® Gen 5621	W	Polyether-modified silicone	25%	*Suitable for multiple resin systems. *Good dynamic defoaming, anti-foaming performance, and excellent binder compatibility. *High efficiency at low dosage.
Borchi® Gol 0011	S	Polysiloxane modified preparation of fatty acid esters	100%	*Reduces pigment floating and provides barrier properties to cured film. *Suitable for high-build systems; can be used in combination with Borchi® Gol E2 in epoxies for improved flow and deaeration.
Borchi® Gol E2	S	Silicone-free hydrocarbon resins	100%	*Helps eliminate flow defects and craters caused by air entrapment. *Benefits shown in thick film application for air release .
Borchi® Gol 1470	S	Silicone-free solution of foam destroying polymers	37% in aromatic petroleum solvent	*Helps eliminate flow defects and craters caused by air entrapment. *Can be used in solvent-free and solvent-based one- and two-component industrial coatings and sealants.
Borchi® Burst DF 300	W	Silicone-free polymers	99%	*Solvent- and silicone-free foam control agent. *Excellent defoamer for gloss paints, wood coatings, pigment dispersions, and matt and silk paints.
Borchi® Burst DFS 500	W/S	Modified silicones SVHC Label free	100%	*Very successfully eliminates foam in the production of inks and pigment dispersions. *Excellent defoamer for solvent-based and solvent-free wood coatings and varnishes.
Borchi® Burst DFS 600	W	Emulsion of modified silicones	21%	*Excellent defoamer for water-based gloss paints and wood coatings. *Can be used in adhesives, inks, and polymer latex systems.
Borchi® Burst DFS 900	W	Emulsion of activated silicone oil with a blend of surfactants	N/A	*Controls regeneration of foam. *Economical silicone emulsion defoamer.

High Performance Catalysts

Borchi® OXY-Coat and Borchi® Phoenix are lines of cobalt-free curing additives for all types of oxidatively drying resin systems. Benefits include improved drying and non-yellowing performance compared to conventional driers. Borchi® high-performance catalysts extend the coatings season window by providing consistent curing performance in all weather conditions (hot or cold, dry or humid) for short, medium and long oil alkyd systems. Borchi® OXY-Coat and Borchi® Phoenix products meet stringent regulatory requirements as cobalt-free solutions.

Borchers additive	System*	Chemical Composition	Description
Borchi® OXY-Coat	W/S	Organometallic complex	*Improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers in water- and solvent-based systems. *Based on a unique, highly active complex. *Supplied in 1,2 propylene glycol.
Borchi® OXY-Coat 1101	W	Organometallic complex	*VOC-free; improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers. *Based on a unique, highly active complex. *Supplied in water.
Borchi® OXY-Coat 1310	S	Organometallic complex	*Recommended for thixotropic solvent-based systems. *Improves drying activity (in standard and adverse conditions), color performance, gloss and haze compared to cobalt-based driers. *Supplied in glycol mixture.
Borchi® OXY-Coat 1410	W/S	Organometallic complex	*Suitable for high solids and composites; high concentration, low VOC version. *Based on a unique, highly active complex. *Supplied in 1,2 -propylene glycol.
Borchi® RapidDry	W/S	Organometallic complex	*Designed to be used with current drier systems (cobalt, zirconium, calcium). *Significantly improves dry time at an economical cost.
Borchi® Phoenix	W/S	Organic Complex	*Improves drying activity, color performance, gloss and haze compared to cobalt-based driers. *Provides wrinkle-free drying and excellent film hardness in high solids systems. *For every 10g of Borchi® Phoenix, add 1g of Borchers® Deca Manganese 8.

Anti-skinning agents

The Ascini® (amine compound products), Borchi® Nox (cyclohexanone oxime, methyl ethyl ketone oxime), and Borchi® Shield ((amino / oxime compound) product offer formulators a choice in anti-skinning additives. Benefits include flexibility in meeting regulatory requirements for in-can skin formation in alkyd coatings.

Borchers additive	System*	Chemistry	Description
Ascini® Anti Skin 0445	W/S	Amino compound dissolved in 1,2-propanediol	*Phenol- and MEKO-free; recommended to be used with Borchi® OXY-Coat cobalt replacement additives. *Controls surface dry retardation and keeps the film open longer to ensure deeper penetration of oxygen to lower film layers which promotes through dry and improves flow properties.
Ascini® Anti Skin 0444	S	Amino compound dissolved in fatty acid ester	*Phenol- and MEKO-free; recommended to be used with Borchi® OXY-Coat cobalt replacement additives. *Controls surface dry retardation and keeps the film open longer to ensure deeper penetration of oxygen to lower film layers which promotes through dry and improves flow properties.
Borchi® Nox C3	S	Cyclohexanone oxime	*Anti-skinning agent especially for printing inks.
Ascini® Anti Skin 1240	S	Amino compound dissolved in fatty acid ester	*Phenol- and MEKO-free; recommended to be used with Borchi® OXY-Coat cobalt replacement additives. *Specially designed for oxidatively drying coating systems and pastes with reduced VOC content.
Borchi® Shield	S	Amino / oxime compound dissolved in fatty acid ester	*MEKO-free. *Works to provide slower surface drying in high solids alkyds, allowing for proper oxidative through cure even with thicker films.

Driers

Metal carboxylates for the oxidative and through drying of coatings and printing inks.

Product Name	Metal	Chemistry	Description/Solvent
Ca			
Octa-Soligen® Calcium 4, basic	4% Ca	Octoate	White spirit
Octa-Soligen® Calcium 10, basic	10% Ca	Octoate	White spirit
Octa-Soligen® Calcium 7 HS, neutral	7% Ca	Octoate	Fatty acid ester, free of VOC

Co			
Borchers® Deca Cobalt 10	10% Co	Neodecanoate	White spirit
Octa-Soligen® Cobalt 10	10% Co	Octoate	White spirit
Borchers® Deca Cobalt 12	12% Co	Neodecanoate	White spirit
Octa-Soligen® Cobalt 12	12% Co	Octoate	White spirit
Octa-Soligen® Cobalt 8(oil)	8% Co	Octoate	Oil
Octa-Soligen® Cobalt 12(oil)	12% Co	Octoate	Oil
Borchers® Deca Cobalt 7 aqua	7% Co	Neodecanoate	Water dispersible oil
21% Cobalt Hydroxy Ten-Cem®	21% Co	Neodecanoate	Drying stabilizer for oxidative drying paint systems; dispersion of cobalt dihydroxide in organic cobalt salts dissolves in white spirit

Mn			
Borchers® Deca Manganese 8	8% Mn	Neodecanoate	White spirit
Octa-Soligen® Manganese 10 (oil)	10% Mn	Octoate	Oil
Borchers® Deca Manganese 8 HS	8% Mn	Neodecanoate	Fatty acid ester, free of VOC

Zn			
Octa-Soligen® Zinc 12	12% Zn	Octoate	White spirit
Octa-Soligen® Zinc 23	23% Zn	Octoate	Solvent-free
Borchers® Deca Zinc 10 aqua	10% Zn	Neodecanoate	Water dispersible oil

Zr			
Borchers® Deca Zirconium 15	15% Zr	Neodecanoate	White spirit
Octa-Soligen® Zirconium 18	18% Zr	Octoate	White spirit
Octa-Soligen® Zirconium 24	24% Zr	Octoate	White spirit
Octa-Soligen® Zirconium 12 HS	12% Zr	Octoate	Fatty acid ester, free of VOC
Borchers® Deca Zirconium 15 HS	15% Zr	Neodecanoate	Fatty acid ester, free of VOC
Octa-Soligen® Zirconium 18 HS	18% Zr	Octoate	Fatty acid ester, free of VOC
Octa-Soligen® Zirconium 10 aqua	10% Zr	Octoate	Water dispersible oil

Other Metals			
7%AOC E	7% Al	Organic Complex	White spirit and glycol ether
Borchers® Deca Barium 12.5	12.5% Ba	Neodecanoate	White spirit
Borchers® Deca Lithium 2	2% Li	Neodecanoate	White spirit
Octa-Soligen® Strontium 10	10% Sr	Octoate	White spirit
Octa-Soligen® Iron 7/8 HS	7/8% Fe	Octoate	Fatty acid ester, free of VOC
12% Cerium Hex-Cem®	12%Ce	Octoate	White spirit
10% Cerium Hydro-Cure®	10%Ce	Octoate	White spirit

Mixed Metals			
Octa-Soligen® 27	Co, Ca, Zr	Octoate	White spirit
Octa-Soligen® 69	Co, Zr	Octoate	White spirit
Octa-Soligen® 173	Co, Ba, Zr	Neodecanoate	White Spirit D60
Octa-Soligen® 69 HS	Co, Zr	Octoate	Fatty acid ester, free of VOC
Octa-Soligen® 123 aqua	Co, Ba, Zn	Octoate	Water dispersible white spirit
Octa-Soligen® 421 aqua	Co, Zr, Zn	Octoate	Water dispersible oil

Moisture Scavengers

Additive OF and Additive TI™ are 100% active moisture scavenger products. Benefits include improved storage stability and dehydrating pigments, fillers and solvents in the production process of 1K and 2K polyurethane systems.

Borchers additive	System*	Chemical Composition	Activity%	Description
Additive OF	S	Triethyl ortho formate	100%	*Eliminates moisture in solvent-based one- and two-component polyurethane coatings during shelf life. *Compatible with most polyol and isocyanate components.
Additive TI™	S	P-toluene sulfonyl isocyanate	100%	*Removes moisture introduced with solvents, pigments and fillers in one- and two-component polyurethane systems in production. *Low viscosity, monofunctional isocyanate which chemically reacts with water to form an inert amide.

Specialties

The specialties line of additives contains essential products for coatings formulations. These include, among others: adhesion promoters, pot life stabilizers and nano-silica dispersions.

Borchers additive	System*	Chemistry	Activity%	Description
Adhesion Promoters				
Borchi® Gen HMP-F	W/S	Oil-free polyester resin	80% in solvent mixture	*Recommended for baking finishes in water- and solvent-based systems. *Improves adhesion to metal in reactive coatings.
Borchi® Gen AOD	S	Oil-free polyester resin	78-82%	*Improves adhesion in baking systems. *Highly compatible with most binders. *Brings significant improvement in adhesion in alkyd and acrylic baking paints and primers, even on difficult substrates such as zinc and aluminum. *Increased film elasticity. *Increased film chemical resistance.

Anticorrosive

Bayoxide® Z active	W/S	Zinc oxide	100%	*Increases through drying for additives and topcoats and improves corrosion protection behavior and hardness. *Reduces yellowing.
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Catalysts

Metal carboxylates for urethanes.

Product	Metal content	Description
Polyurethane		
Borchers® LH 10	1.8% Sn	*Specially designed for water-based two-component polyurethane coatings *Accelerates the cross-linking process and improves the drying of chemically curing systems.
Borchi® Kat 315 EU	16% Bi	*Solvent-free; specially designed for one- and two-component polyurethane systems and RTV silicones. *Accelerates the chemical reaction between the polyol and isocyanate component of polyurethane foam systems.
Borchi® Kat 21	21% Bi	*Highly reactive tin-free catalyst for solvent-based one- and two-component polyurethane clearcoats and pigmented coating systems.
Borchi® Kat 24	24% Bi	*Solvent-free; specially designed for one- and two-component polyurethane systems. *Accelerates the chemical reaction between the alcohol and isocyanate component of polyurethane coating systems, thus allowing optimum control of the drying properties.
Borchers® Deca Copper 8	8% Cu	*Copper neodecanoate dissolved in white spirit; provides longer processing time and lowers the exothermic peak of unsaturated polyester formulations.
15% Potassium Hex-Cem® EU	15% K	*Specially designed for unsaturated polyesters and pot life stabilizers for two-component polyurethane systems. *Potassium 2-ethylhexanoate dissolved in diethylene diglycol which combined with cobalt supports the accelerating effect and discoloration of unsaturated polyesters dissolved in styrene, ultimately requiring less cobalt in the system.
Borchi® Kat 15	15% Zn	*Tin-free catalyst based on pure zinc neodecanoate with moderate reactivity for solvent-based one- and two-component polyurethane coatings and other chemical systems. *Diluted in dearomatized white spirit.
Borchi® Kat 19	19% Zn	*Tin-free catalyst for solvent-based one- and two-component polyurethane clearcoats and pigmented coating systems.
Borchi® Kat 0761	15% Zn	*Tin-free catalyst based on pure zinc neodecanoate with moderate reactivity for solvent-based one- and two-component polyurethane coatings and other chemical systems. *Diluted in fatty ester.
Borchi® Kat 22	22% Zn	*Tin-, VOC- and solvent-free metal carboxylate-based catalyst with moderate reactivity for solvent-based and solvent-free one- and two-component polyurethane coatings and chemical synthesis.
Borchi® Kat 0243	Bi, Li	*Tin-, VOC- and solvent-free catalyst based on a combination of metal carboxylates for polyurethane reactions. *Especially for solvent-based and solvent-free one- and two-component polyurethane clear coats and two-component polyurethane adhesives as well as for the modification of silicones.
Borchi® Kat 0244	Bi, Zn	*Tin-, VOC- and solvent-free catalyst based on a combination of metal carboxylates for polyurethane reactions *Especially for solvent-based and solvent-free one- and two-component polyurethane clear coats and two-component polyurethane adhesives



CCA's history dates back to 1947, when it was founded by Rockcote Paint Company in Rockford, Illinois, USA, with a core focus on professional color paste R&D. In 1999, Valspar acquired the Engineered Polymer Solutions (EPS) resin business, and CCA was formally integrated with EPS, forming a technological layout for the synergistic development of "resins + color pastes". The full brand name is often referred to as "EPS CCA". In 2017, CCA merged with Sherwin-Williams Company. Today, CCA has over 10,000 POS retail stores across the globe and even became the largest supplier of POS color pastes in China in 2021. As of 2025, CCA has accumulated more than 78 years of profound experience in the color paste industry. Evolving from a regional supplier in North America to a global provider of color paste solutions, CCA is widely recognized as an industry "technological benchmark brand".

Water-based colorant products

NovoColor® IP-85 Series

Product composition: Resin-free, contains PEG, etc. **Technical features:** Excellent compatibility, product line meets different durability requirements, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	PIGMENT	%WATER	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.
8500		Titanium White	PW6	2.02	66.7	23.2	76.8
8510		Organic Yellow	PY14	1.11	32.0	61.8	38.2
8512		Light Yellow	PY154	1.16	38.6	53.2	46.8
8513		Organic Yellow	PY74	1.17	47.0	38.3	61.6
8515		Organic Med. Yellow	PY83	1.19	49.7	39.9	60.1
8517		Exterior Golden Yellow	PY110	1.20	36.0	57.5	42.5
8518		Exterior Yellow	PY184	2.06	63.2	27.6	72.4
8522_CN		Phthalo Green	PG7	1.35	44.6	38.3	61.7
8532		Phthalo Blue	PB15:2	1.13	33.8	49.2	50.8
8539		Carbazole Violet	PV23	1.18	14.7	49.8	50.2
8542		Organic Red	PR170	1.11	33.9	48.2	51.8
8543_CN		Napthol Red	PR112	1.13	44.0	38.9	61.1
8545(Y)_CN		Red Oxide	PR101	2.17	65.0	26.1	73.9
8545(Y)-LL		Red Oxide	PR101	1.98	60.7	31.1	68.9
8545_CN		Red Oxide	PR101	1.97	60.0	35.0	65.0
8546		Durable Red	Blend	1.14	34.1	46.8	53.2
8552		DPP Red	PR254	1.20	41.0	49.6	50.6
8568		DPP Orange	PO73	1.10	42.5	42.0	58.0
8576_CN		Yellow Oxide	PY42	1.90	60.0	35.7	64.3
8576-LL		Yellow Oxide	PY42	1.90	60.0	35.2	64.8
8583_CN		Magenta	PR122	1.21	37.0	51.3	48.7
8588		Raw Umber	PBR7	1.39	18.2	33.4	66.5
8594		Carbon Black	PBK7	1.20	39.5	54.7	45.3
8594_CN		Carbon Black	PBK7	1.20	40.0	54.7	45.3
8594-LL		Carbon Black	PBK7	1.22	36.7	38.2	52.3
8599		IR Black	PBR29	1.86	54.0	23.7	76.3
8599_CN		IR Black	PBR29	2.15	64.1	29.4	70.6

NovoColor® II-88 Series

Product composition: Resin-free, contains PEG, etc. **Technical features:** Excellent compatibility, POS colorants, good flowability, stable batch-to-batch consistency, precise dispensing, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	PIGMENT	%WATER	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.
8800N		Titanium White	PW6	1.97	53.9	19.9	81.0
8813N		Yellow	PY74	1.34	13.3	34.5	65.4
8891N		Carbon Black	PBK7	1.20	10.3	42.0	57.8
8878N		Yellow Oxide	PY42	1.82	56.5	22.8	77.2
8821N		Phthalo Green	PG7	1.40	9.6	36.1	63.8
8832N		Phthalo Blue	PB15:2	1.26	7.5	38.3	61.6

8835N		Red Oxide	PR101	1.91	59.5	21.4	78.5
8888N		Raw Umber	PBR7	1.39	18.1	34.9	65.0
8847N		Fast Red	Blend	1.24	9.3	49.6	50.3
8851N		Red	PR254	1.17	17.2	39.8	60.2
8818N		Durable Yellow	PY184	1.63	36.4	29.9	70.1
8814N		Med Yellow	Blend	1.20	35.3	35.4	64.5
8882N		Magenta	PR122	1.27	6.8	43.6	56.3

NovoColor® CCA Series

Product composition: Resin-free, contains PEG, etc. **Technical features:** Excellent compatibility, POS colorants, good flowability, stable batch-to-batch consistency, precise dispensing, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	%PRIME PIGMENT	%INERT SOLIDS	%WATER	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.	BY WT.
CCA-KX		Titanium White	PW6	1.94	59.1	0.0	17.3	82.7
CCA-AXX		Lemon Yellow	Blend	1.27	13.4	30.5	41.7	58.3
CCA-B		Carbon Black	PBK7	1.15	7.8	15.7	70.0	30.0
CCA-C		Yellow Oxide	PY42	1.80	49.8	0.0	27.8	72.2
CCA-D		Phthalo Green	PG7	1.38	10.0	32.0	46.0	54.0
CCA-E		Phthalo Blue	PB15:2	1.37	4.5	38.0	45.0	55.0
CCA-EG		Phthalo Blue	PB15:3	1.28	8.0	33.0	38.5	61.5
CCA-F		Red Oxide	PR101	1.95	58.6	0.0	24.8	75.2
CCA-L		Umber	PBR7	1.43	13.7	33.5	39.5	60.5
CCA-P		Fast Violet	PV23	1.20	3.2	21.0	71.1	28.9
CCA-R		Red	Blend	1.18	12.7	16.0	59.6	40.4
CCA-T		Med.Yellow	Blend	1.15	33.0	8.5	48.5	51.5
CCA-V		Magenta	PR122	1.17	7.9	18.0	51.5	48.5
CCA-AN		Exterior Med. Yellow	Blend	1.50	23.2	21.2	29.9	70.1
CCA-RN		Exterior Red	Blend	1.27	10.0	18.0	54.7	45.3

NovoColor® CCAT Series

Product composition: Resin-free, contains PEG, etc. **Technical features:** Excellent compatibility, POS colorants, good flowability, stable batch-to-batch consistency, precise dispensing, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	%PRIME PIGMENT	%INERT SOLIDS	%WATER	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.	BY WT.
CCAT-KX		Titanium White	PW6	1.94	59.0	0.0	17.3	82.7
CCAT-AXX		Lemon Yellow	Blend	1.31	13.5	30.5	43.6	56.4
CCAT-B		Carbon Black	PBK7	1.17	7.5	22.0	70.0	30.0
CCAT-C		Yellow Oxide	PY42	1.82	52.8	0.0	24.8	75.2
CCAT-D		Phthalo Green	PG7	1.36	9.7	31.0	46.0	54.0
CCAT-E		Phthalo Blue	PB15:2	1.32	4.5	35.0	50.0	50.0
CCAT-F		Red Oxide	PR101	1.94	60.5	0.0	24.8	75.2
CCAT-L		Raw Umber	PBR7	1.41	16.8	21.0	39.1	60.9
CCAT-R		Red	Blend	1.14	13.5	12.0	60.0	40.0
CCAT-T		Med.Yellow	Blend	1.17	31.5	8.5	48.5	51.5
CCAT-V		Magenta	PR122	1.19	9.9	11.0	58.5	41.5

NovoColor® WHT Series

Product composition: Resin-free, solvent-free, etc. **Technical features:** Excellent compatibility, resistance to alcohol and ether solvents, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	PIGMENT	%WATER	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.
WHT12		Trans White	PW6	1.870	55.0	32.0	68.0
WHT31		Trans Iron Yellow	PY42	1.376	30.0	52.0	48.0
WHT36		TransYellow	PY83	1.079	20.0	68.5	31.5
WHT41		Trans Red	PR170	1.092	20.0	68.5	31.5
WHT42		Trans Quinacridone Red	PV19	1.079	20.0	68.5	31.5
WHT43		Trans Iron Red	PR101	1.304	36.0	42.0	58.0
WHT44		Trans Violet	PV23	1.088	20.0	68.5	31.5
WHT62		Trans Blue	PB15:3	1.095	20.0	68.5	31.5
WHT71		Trans Black	PBK7	1.149	25.0	65.0	35.0
WHT72		Trans Jet Black	PBK7	1.109	10.0	80.0	20.0
WHT81		Trans Green	PG7	1.162	20.0	68.5	31.5

NovoColor® WHP 96 Series

Product composition: Resin-free, PEG-free, etc. **Technical features:** Excellent compatibility, outstanding resistance to water, acids, and alkalis, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	PIGMENT	%WATER	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.
9600W			PW6	2.30	73	18	82
9600W1		Titanium White	PW6	2.28	73	18	82
9612W		Light Yellow	PY154	1.18	37	51	49
9615W		Organic Med. Yellow	PY83	1.18	40	50	50
9617W		Organic Yellow	PY110	1.20	47	39	61
9622W		Phthalo Green	PG7	1.30	35	46	54
9623W		Phthalo Green	PG36	1.32	34	56	44
9632W		Phthalo Blue	PB15:4	1.17	40	49	51
9634W		Phthalo Blue	PB15:2	1.19	39	49	51
9639W		Carbazole Violet	PV23	1.15	31	53	47
9645W		Red Oxide	PR101	2.35	67	27	73
9652W		DPP Red	PR254	1.20	40	48	52
9667W		Organic Orange	PO36	1.24	47	43	57
9676W		Yellow Oxide	PY42	1.89	60	32	68
9683W		Quinacridone Magenta	PR122	1.14	39	54	46
9694W		Carbon Black	PBK7	1.26	40	52	48
9698W		IR Black	PBR29	2.15	65	24	76



Solvent-based colorant products

Solvent-based colorant development capability

- **Polyester color paste:** Amino baking system, high temperature resistance, weatherability
- **Amino color paste:** Amino baking system, high temperature resistance, weatherability
- **Nitro color paste:** Wood coating nitro system, color card coatings, etc., without affecting the performance of nitrocellulose paint
- **Others:** Customized according to customer's system and demand volume

OptiColor® IP 51 Series

Product composition: Ketone-aldehyde resin as carrier, ester solvents, aromatic-free, etc. **Technical features:** Excellent compatibility. extensive product line to meet various requirements, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	%PRIME PIGMENT	%INERT SOLIDS	%SOLVENTS	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.	BY WT.
5100_CN		Titanium White	PW6	2	66.4	0.0	16.9	83.1
5109		Organic Yellow GS	PY151	1.124	37.8	0.0	30.8	69.2
5113		Diaryl Yellow	PY83	1.064	23.3	0.0	32.5	67.5
5116		Bismuth Vanadate Yellow	PY184	2.331	69.8	0.0	13.7	86.3
5117		Isoindoline Yellow	PY139	1.226	23.3	0.0	32.5	67.5
5123		Phthalo Green	PG7	1.166	30.4	0.0	31.2	68.8
5132_CN		Phthalo Blue (15:2)	PB15: 2	1.079	19.4	0.0	40.0	60.0
5134		Phthalo Blue (15:4))	PB15: 4	1.123	27.1	0.0	27.6	72.4
5138		Quinacridone Violet	PV19	1.046	21.4	0.0	36.1	63.9
5141		Napthol Red	PR170	1.098	36.0	0.0	31.0	69.0
5143		Napthol Red BS	PR170	1.062	22.9	0.0	41.8	58.2
5144_CN		Quinacridone Red	PV19	1.046	20.0	0.0	33.2	66.8
5145_CN		Red Iron Oxide YS	PR101	1.95	60.0	0.0	16.5	83.5
5149		DPPRed	PR254	1.152	43.1	0.0	37.8	62.2
5166		Organic Orange	PO34	1.133	43.4	0.0	36.2	63.8
5175_CN		Yellow Iron Oxide	PY42	1.905	63.2	0.0	21.6	78.4
5191		Lamp Black	PBK7	1.214	38.2	0.0	27.8	72.2
5198		Jet Black	PBK7	1.016	10.5	0.0	49.7	50.3

Alkydtint-HP Series

Product composition: Synthetic fatty acid resin as carrier, primarily ester solvents, containing a small amount of xylene, etc.

Technical features: Excellent compatibility and color stability, high pigment content, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	%PRIME PIGMENT	%INERT SOLIDS	%SOLVENTS	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.	BY WT.
HP612		Titanium White	PW6	2.010	65	0.0	14.4	85.6
HP631		Yellow Iron Oxide	PY42	1.867	60	0.0	18.9	81.1
HP633		Organic Yellow	PY14	1.001	10	0.0	62.7	37.3
HP634		Organic Yellow,GS	PY151	1.136	33	0.0	38.7	61.3
HP636		Diaryl Yellow	PY83	1.068	20	0.0	44.1	55.9
HP640		Napthol Red	PR170	1.094	35	0.0	35.9	64.1
HP642		Napthol Red	PR170	1.052	28	0.0	46.2	53.8
HP643		Red Iron Oxide	PR101	2.183	65	0.0	14.5	85.5
HP644		Carbazole Violet	PV23	1.010	10	0.0	64.1	35.9
HP645		DPP Red	PR254	1.130	27	0.0	36.1	63.9
HP646		Quinacridone Red	PV19	1.049	20	0.0	52.0	48.0
HP649		Organic Orange	PO36	1.155	35	0.0	37.3	62.7
HP661		Phthalo Blue	PB15:2	1.095	15	0.0	43.7	56.3
HP663		Ultra Marine Blue	PB29	1.469	55	0.0	18.0	82.0
HP672		Carbon Black	Pbk7	1.097	15	0.0	41.5	58.5
HP673		Carbon Black	Pbk7	1.105	15	0.0	37.5	62.5
HP681		Phthalo Green	PG7	1.152	20	0.0	52.4	47.6

Acrylic HC Series

Product composition: Hydroxy acrylic resin as carrier, ester solvents, aromatic-free, etc. **Technical features:** Excellent compatibility,extensive product line to meet various requirements, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	%PRIME PIGMENT	%INERT SOLIDS	%SOLVENTS	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.	BY WT.
HC12		Titanium White	PW6	1.856	60.0	0.0	14.5	85.5
HC31		Yellow Iron Oxide	PY42	1.854	60.0	0.0	16.2	83.8
HC33		Organic Yellow,GS	PY151	1.136	35.8	0.0	34.2	65.8
HC34		Organic Yellow	PY154	1.139	35.0	0.0	32.4	67.6
HC36		Diaryl Yellow	PY83	1.095	26.7	0.0	35.5	64.5
HC37		Isoindoline Yellow	PY139	1.189	35.0	0.0	23.9	76.1
HC40		Napthol Red	PR170	1.066	30.0	0.0	34.3	65.7
HC41		Quinacridone Red	PR122	1.026	15.0	0.0	51.3	48.7
HC42		DPP Red	PR254	1.124	30.0	0.0	33.8	66.2
HC43		Red Iron Oxide YS	PR101	1.938	60.0	0.0	17.8	82.2
HC44		Carbazole Violet	PV23	1.001	12.0	0.0	55.8	44.2
HC48		Organic Orange	PO36	1.159	35.0	0.0	27.1	72.9
HC50		M-C orange	Blend	1.177	35.0	0.0	25.2	74.8
HC61		Phthalo Blue	PB15:2	1.043	22.0	0.0	40.6	59.4
HC62		Phthalo Blue	PB15: 4	1.099	22.0	0.0	31.0	69.0
HC63		Ultra Marine Blue	PB29	1.392	45.0	0.0	17.9	82.1
HC71		Lamp Black	PBK7	1.14	25.0	0.0	28.1	71.9
HC72		Carbon Black	PBK7	1.099	25.0	0.0	43.9	56.1
HC73		Jet Black	PBK7	1.088	15.0	0.0	32.2	67.8
HC81		Phthalo Green	PG7	1.113	18.0	0.0	39.8	60.2
HC82		Phthalo Green	PG36	1.123	20.0	0.0	43.3	56.7

Exatint CN L Series

Product composition: Long oil alkyd resin as carrier, low-polarity solvents, etc. **Technical features:** Excellent wipe-coating properties. minimal impact on interlayer adhesion, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	%PRIME PIGMENT	%INERT SOLIDS	%SOLVENTS	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.	BY WT.
L300		Bone Black	PBLK9	1.093	25.6	0.0	27.5	72.5
L301		Lamp Black	PBLK7	1.051	22.0	0.0	27.9	72.1
L400		Vandyke Brown	BLEND	1.376	37.5	0.0	16.7	83.3
L402		Umber Brown	PBR7	1.370	11.3	0.0	23.1	76.9
L404		Trans Oxide Red	PR101	1.337	35.0	0.0	15.1	84.9
L604		Napthol Red	PR170	1.016	11.4	0.0	13.5	86.5
L703		Diaryl Yellow	PY83	0.946	5.2	0.0	40.4	59.6
L800		Titanium White	PW6	1.980	66.3	0.0	5.7	94.3

High Transparency HT Series

Product composition: Cellulose as carrier, ester solvents, containing a small amount of alcohol solvents, etc. **Technical features:** Excellent compatibility — suitable for high, medium, and low polarity systems as well as low-tint applications, optimized pigment content, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	%PRIME PIGMENT	%INERT SOLIDS	%SOLVENTS	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.	BY WT.
HT12		Trans White	PW6	1.088	14.0	0.0	62.3	37.7
HT36		Trans DPP Red	PY83	0.994	5.0	0.0	80.7	19.3
HT42		Trans Red	PR48:2	0.998	5.3	0.0	84.6	15.4
HT43		Trans Iron Red	PR101	1.090	12.0	0.0	69.0	31.0
HT44		Trans Violet	PV23	0.979	2.5	0.0	90.7	9.3
HT62		Trans Blue	PB15:4	1.002	6.8	0.0	80.4	19.6
HT71		Trans Black	Pbk7	1.016	6.8	0.0	74.4	25.6

UV8 Series Colorants

Product composition: UV monomer as carrier, containing a small amount of UV resin, 100% solid content, solvent-free, etc. **Technical features:** Excellent compatibility, outstanding storage stability, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	%PRIME PIGMENT	%INERT SOLIDS	%SOLVENTS	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.	BY WT.
UV810		Titanium White	PW6	1.88	60.0	16.0	24.0	100
UV820		Diaryl Yellow	PY83	1.15	25	28	40	100
UV822		Benzimidazolone Yellow	PY154	1.16	25	30	45	100
UV831		Yellow Iron Oxide	PY42	1.91	60	20	20	100
UV832		DPP Red	PR254	1.17	25	25	43	100
UV841		Phthalo Blue	PB15:1	1.17	23	24	43	100
UV842		Carbazole Violet	PV23	1.08	9	12	78	100
UV843		Red Iron Oxide	PR101	2.04	65	13.5	20	100
UV845		Quinacridone Violet	PV19	1.10	25	25	50	100
UV851		Phthalo Green	PG7	1.22	24	24	42	100
UV891		Carbon Black	PBK7	1.14	15	30	41	100
UV892		Carbon Black	PBK7	1.23	30	30	40	100
UV893		Jet Black	PBK7	1.12	10	20	55	100

OptiColor® RC UPE Series

Product composition: Unsaturated polyester resin as carrier, 100% solid content, solvent-free, etc. **Technical features:** Excellent compatibility and storage stability, minimal impact on the crosslinking reaction of the system, etc.

PRODUCT NUMBER	MASSTONE	COLORANT	PIGMENT	DENSITY	%PRIME PIGMENT	%INERT SOLIDS	%SOLVENTS	%TOTAL SOLIDS
			C.I.	GMS./ML.	BY WT.	BY WT.	BY WT.	BY WT.
UPE820		Titanium White	PW6	2.041	60.0	8.0	0.0	100.0
UPE821		Benzimidazolone Yellow	PY154	1.165	30.0	0.0	0.0	100.0
UPE8211		Organic Yellow	PY151	1.140	25.0	0.0	0.0	100.0
UPE831		Bismuth Vanadate Yellow	PY184	2.443	65.0	0.0	0.0	100.0
UPE822		Organic Orange	PO36	1.146	20.0	0.0	0.0	100.0
UPE824		Carbazole Violet	PV23	1.090	9.0	0.0	0.0	100.0

UPE8241		Quinacridone Red	PV19	1.113	12.0	0.0	0.0	100.0
UPE825		Phthalo Blue	PB15:2	1.100	10.0	0.0	0.0	100.0
UPE826		Phthalo Green	PG7	1.140	16.0	0.0	0.0	100.0
UPE827		Yellow Iron Oxide	PY42	1.460	36.0	0.0	0.0	100.0
UPE828		Red Iron Oxide YS	PR101	1.480	36.0	0.0	0.0	100.0
UPE829		Napthol Red	PR170	1.130	20.0	0.0	0.0	100.0
UPE839		DPP Red	PR254	1.140	16.0	0.0	0.0	100.0
UPE830		Lamp Black	PBK7	1.093	7.0	0.0	0.0	100.0
UPE8301		Carbon Black	PBK7	1.094	7.0	0.0	0.0	100.0



BRUNO BOCK Group is a global leader in providing high-quality organic sulfur solutions for various applications. Our vision is to become the preferred global partner in sulfur chemistry by utilizing our professional knowledge and all the inherent added value of sulfur chemistry.

Thiol olefin system

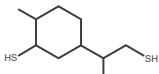
Product brand NO.	Description	Thiol functionality	Molecular Weight(g/mol)	Active hydrogen equivalent ¹ (g/mol)	Sulfenyl content ¹ (%)	Viscosity ^{1,2} (mPa·s)
Thiocure® 320	Low viscosity difunctional polythiol, used as a reactive diluent or toughener in coatings adhesives, and sealants.	2	238.3	122-125	26.8	~10
Thiocure® 330	Low viscosity and highly reactive trifunctional polythiol. Compared to Thiocure® 340, suitable for fast-curing systems requiring low crosslink density.	3	398.6	136-140	24.0	~150
Thiocure® 230HE	Low viscosity and highly reactive trifunctional polythiol. Compared to Thiocure® 340, suitable for fast-curing systems requiring low crosslink density (high purity).	3	398	136-140	24	~150
Thiocure® 331	Trifunctional polythiol with an isocyanurate backbone, improves adhesion to mineral and metal substrates.	3	525.6	180-184	18.4	~400
Thiocure® 340	Highly reactive tetrafunctional polythiol with high crosslink density, improves mechanical properties and chemical stability.	4	488.6	125-128	26.0	~400
Thiocure® 240HE	Highly reactive tetrafunctional polythiol with high crosslink density, improves mechanical properties and chemical stability (high purity).	4	488.6	125-128	26.0	~400
Thiocure® 332	Polyether-based trifunctional polythiol, used in flexible formulations or as a toughener in combination with Thiocure® 340/Thiocure® 330.	3	~700.0	236-262	13.5	~200
Thiocure® 333	Polyether-based trifunctional polythiol, offers higher flexibility compared to Thiocure® 332.	3	~1300.0	435-448	7.1	~400
Thiocure® 260HE	Extremely high cross-linking density hexafunctional polythiol.	6	783.1	135-140	24.1	~2000
Thiocure® 2010R	Low viscosity difunctional ester-free polythiol, provides excellent resistance to heat and humidity.	2	204.4	102-105	32	~20

- 1.The above typical values should not be regarded as product specifications;
- 2.Viscosity: rotational viscometer DIN53019, 20°C

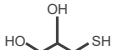
Chain transfer agent - Non-water soluble

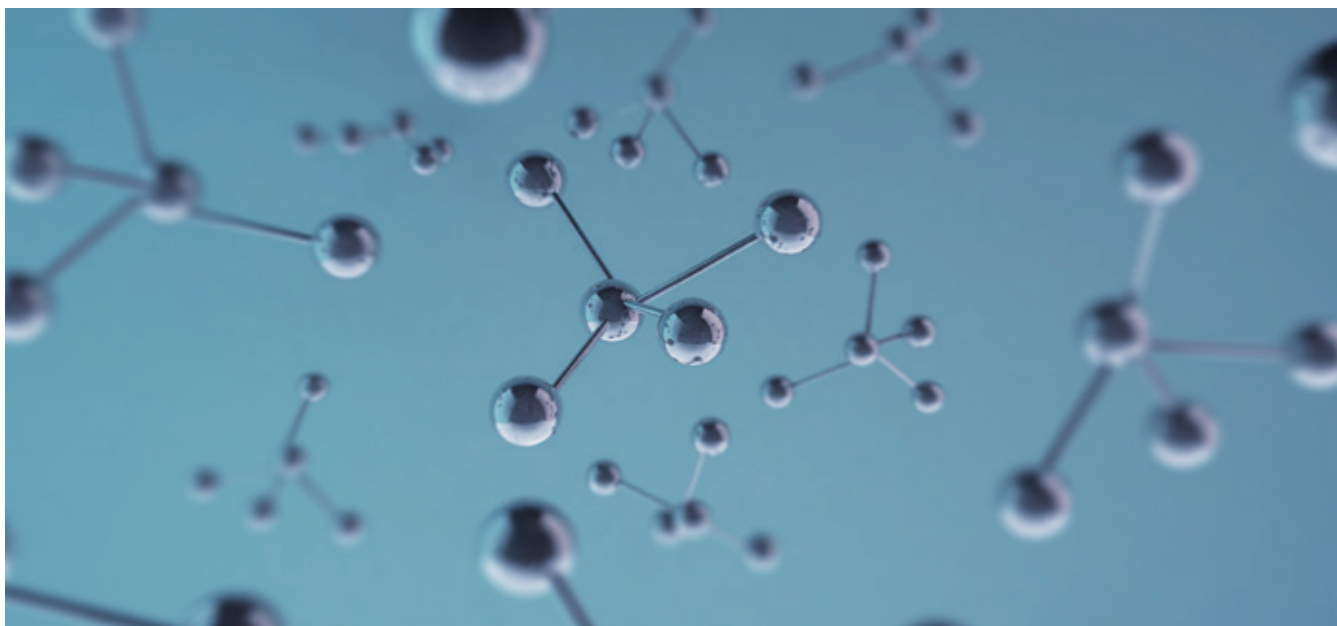
Product brand NO.	Description	Molecular Weight(g/mol)	SH-Content (% w/w)	SH-Functionality	Functional group type(Grade)
Evabopol® 198D	Low odor CTA for emulsion polymerization	205.1	16.0	1	1
Evabopol® 394	Low odor CTA for emulsion polymerization	218.4	15.1	1	1
Evabopol® 398	Low odor CTA for emulsion polymerization	219.1	15.0	1	1
Evabopol® 120	Difunctional CTA, used to make acrylic	210.3	29.9	2	1
Evabopol® 313	Low odor CTA for emulsion polymerization	288.49	11.4	1	1

Ester-Free Thiol Compound

Product brand NO.	Molecular structure	Thiol Functionality	Molecular Weight(g/mol)	Active Hydrogen Equivalent (g/mol)	Thiol Content (%)	Viscosity (mPa·s)
Thiocure® 2010R		2	204.4	102-105	32	~20

Thioglycerol

Product brand NO.	Molecular structure	Molecular Weight(g/mol)	SH-Content (% w/w)	SH-Functionality	Functional group type(Grade)
Evabochem® TG98%		108.1	n.a.	n.a.	n.a.





United Initiators is the world's largest dedicated producer of specialty chemical initiators and the only manufacturer offering a full range of both organic peroxides and persulfates (inorganic peroxides). We are a global leader in persulfates and rank among the top three suppliers of organic peroxides worldwide.

Our products are essential to polymer manufacturing and extend into consumer applications—hair bleaching, disinfection, denture cleansing, and tooth whitening—as well as industrial uses including printed circuit board etching, chemical synthesis, oil & gas exploration, and soil remediation.

Committed to the highest safety and environmental standards, UI continuously optimizes processes and energy efficiency while providing customers with in-depth training and support. Our global footprint ensures consistent quality and reliable supply for both regional and international customers.

Organic Peroxides

Product Code	Supply Form	Peroxide Content%	Active Oxygen%	Standard packaging	Safety Information (°C/°F)	Control Temperature (°C/°F)	min. Storage Temperature	max. Storage Temperature (°C/°F)
Cumyl peroxyneodecanoate (CAS No. 26748-47-0)								
CUPND-75-AL	75%, solution in aliphatics	75	3.9	HDPE canisters	15/59	-10/14	—	-15/5
1,1,3,3-Tetramethylbutyl peroxyneodecanoate (CAS No. 51240-95-0)								
TOPND-70-AL	70%, solution in isododecane	70	3.7	HDPE canisters	15/59	-5/23	—	-15/5
tert-Amyl peroxyneodecanoate (CAS no. 68299-16-1)								
TAPND-75-AL	75%, solution in aliphatics	75	4.6	HDPE canisters	20/68	0/32	—	-15/5
TAPND-75-AL1 (US)	75%, solution in aliphatics	75	4.6	HDPE canisters	20/68	0/32	—	-15/5
tert-Butyl peroxyneodecanoate (CAS no. 26748-41-4)								
TBPND	liquid, technically pure	95	6.2	HDPE canisters	15/59	-5/23	—	-10/14
TBPND-75-AL	75%, solution in isododecane	75	4.9	HDPE canisters	15/59	0/32	—	-10/14
TBPND-75-AL1 (US)	75%, solution in OMS	75	4.9	HDPE canisters	15/59	0/32	—	-10/14
TBPND-50-ENF1	50%, non freezing emulsion	50	3.3	IBC	15/59	0/32	—	-10/14
TBPND-30-AL	30%, solution in isododecane	30	2.0	IBC	15/59	0/32	—	-10/14
tert-Amyl peroxy-pivalate (CAS No. 29240-17-3)								
TAPPI-75-AL	75%, solution in isododecane	75	6.4	HDPE canisters	25/77	10/50	—	-5/23
TAPPI-75-AL1 (US)	75%, solution in OMS	75	6.4	HDPE canisters	25/77	10/50	—	-5/23

tert-Amyl peroxyneodecanoate (CAS No. 927-07-1)								
TBPPI-75-AL	75%, solution in isododecane	75	6.9	HDPE canisters	20/68	0/32	–15/5	–5/23
TBPPI-75-AL1 (US)	75%, solution in OMS	75	6.9	HDPE canisters	20/68	0/32	–15/5	–5/23
TBPPI-25-AL	25%, solution in isododecane	25	2.3	IBC	25/77	10/55	–15/5	–5/23
TBPPI-40-AL	40%, solution in isododecane	40	3.7	IBC	25/77	10/55	–15/5	–5/23
Di(3,5,5-trimethylhexanoyl) peroxide (CAS no. 3851-87-4)								
INP-75-AL	75%, solution in isododecane	75	3.8	HDPE canisters	20/68	0/32	–10/14	0/32
Dilauroyl peroxide (CAS no. 105-74-8)								
LP-40-SAQ2	40%, aqueous suspension	40	1.6	IBC	50/122	—	0/32	30/86
CUROX® LP-CL2	80% powder, water damped	80	3.2	cartons	50/122	—	0/32	30/86
Di(2,4-dichlorobenzoyl) peroxide (CAS no. 133-14-2)								
DCLBP-50-PSI	50%, paste in silicone oil	50	2.1	HDPE drum	60/140	—	—	30/86
Dibenzoyl peroxide (CAS no. 94-36-0)								
BP-40-SAQ	40% aqueous suspension	40	2.7	IBC	80/176	—	0/32	30/86
tert-Amyl peroxy-2-ethylhexanoate (CAS no. 686-31-7)								
TAPEH	liquid, technically pure	99	6.9	HDPE canisters	40/104	20/68	—	10/50
TAPEH-75-AL1 (US)	75%, solution in OMS	75	5.2	HDPE canisters	40/104	20/68	—	10/50
tert-Butyl peroxy-2-ethylhexanoate (CAS no. 3006-82-4)								
TAPEH	liquid, technically pure	>99	7.3	HDPE canisters	40/104	20/68	—	10/50
TBPEH-50-AL	50%, solution in isododecane	50	3.7	IBC	40/104	30/68	—	10/59
TBPEH-30-AL	30%, solution in isododecane	30	2.2	IBC	40/104	30/68	—	10/50
TBPEH-50-AL1 (US)	50%, solution in OMS	50	3.7	HDPE canisters	40/104	30/68	—	15/59
TBPEH-LA-M3	liquid mixture	90	6.7	HDPE canisters	40/104	20/68	—	15/59

Methyl isobutyl ketone peroxide (CAS no. 37206-20-5)								
CUROX® I	various grades see separate Thermoset brochures							
Methyl ethyl ketone peroxide (CAS no. 1338-23-4)								
CUROX® M	various grades see separate Thermoset brochures							
Acetylacetone peroxide (CAS no. 37187-22-7)								
CUROX® A	various grades see separate Thermoset brochures							
tert-Amyl peroxy-2-ethylhexylcarbonate (CAS no. 70833-40-8)								
TAPEHC	liquid, technically pure	95	5.8	HDPE canisters	55/131	—	—	20/68
CUROX® SOLAR AC3	liquid, technically pure	97	5.9	HDPE canisters	55/131	—	—	20/68
1,1-Di(tert-butyl peroxy)-3, 3, 5- trimethylcyclohexane (CAS no. 6731-36-8)								
TMCH-90- AL (AL3)*	90%, solution in isododecane	90	9.4	HDPE canisters	70/158	—	—	30/86
TMCH-50-AL	50%, solution in isododecane	50	5.3	HDPE canisters	70/158	—	—	30/86
TMCH-90-WO	90%, solution in white oil	90	9.4	HDPE canisters	70/158	—	—	30/86
TMCH-HA-M1	liquid mixture	75	5.8	HDPE canisters	55/131	20/68	—	20/68
1,1-Di(tert-butyl peroxy) cyclohexane (CAS no. 3006-86-8)								
CH-80-AL (AL3) *	80%, solution in isododecane	80	9.8	HDPE canisters	60/140	—	—	30/86
CH-50-WO	50%, solution in white oil	50	6.2	HDPE canisters	70/158	—	—	30/86
tert-Butyl peroxy-3, 5, 5-trimethylhexanoate (CAS no. 13122-18-4)								
TBPIN	liquid, technically pure	>99	6.9	HDPE canisters	60/140	—	—	25/77
TBPIN-60-AL	60%, solution in isododecane	60	4.2	IBC	60/140	—	—	25/77
TBPIN-30-AL	30%, solution in isododecane	30	2.1	IBC	60/140	—	—	25/77
TBPIN-HA-M1	liquid mixture	90	6.2	HDPE canisters	60/140	—	—	30/86

tert-Butyl peroxy-2-ethylhexylcarbonate (CAS no. 34443-12-4)								
TBPEHC	liquid, technically pure	>97	6.3	HDPE canisters	60/140	—	—	20/68
CUROX® SOLAR FC1	liquid, technically pure	>97	>6.4	HDPE canisters	60/140	—	—	20/68
tert-Butyl peroxyacetate (CAS no. 107-71-1)								
TBPA-50-AL1 (US)	50%, solution in OMS	50	6.1	HDPE canisters	70/158	—	—	40/104
TBPA-40-AL1 (US)	40%, solution in OMS	40	4.8	IBC	70/158	—	—	40/104
tert-Amyl peroxybenzoate (CAS no. 4511-39-1)								
TAPB	liquid, technically pure	95	7.3	HDPE canisters	60/140	—	10/50	40/104
tert-Butyl peroxybenzoate (CAS no. 614-45-9)								
TBPB	liquid, technically pure	>99	8.2	HDPE canisters	60/140	—	10/50	30/86
TBPB-HA-M1	liquid mixture	90	7.4	HDPE canisters	60/140	—	10/50	30/86
TBPB-HA-M3	liquid mixture	80	6.5	HDPE canisters	55/131	—	10/50	30/86
2,2-Di(tert-butyl peroxy)butane (CAS no. 2167-23-9)								
BU-50-AL	50%, solution in isododecane	50	6.8	HDPE canisters	70/158	—	–15/5	30/86
BU-50-WO	50%, solution in white oil	50	6.8	HDPE canisters	70/158	—	–15/5	30/86
BU-35-AL	35%, solution in isododecane	35	4.8	IBC	70/158	—	–15/5	30/86
Dicumylperoxide (CAS no. 80-43-3)								
DCUP	powder, technically pure	>99	5.9	cartons	>70/158	—	—	30/86
1,3-/1,4-Di(2-tert-butylperoxyisopropyl)benzene (CAS no. 25155-25-3)								
DIPP	flakes, technically pure	97	9.2	cartons	90/194	—	—	30/86
2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane (CAS no. 78-63-7)								
DHBP	liquid, technically pure	95	10.4	HDPE canisters	90/194	—	10/50	40/104
DHBP-7.5-IC5	7.5%, granules with PP	7, 5	0.8	cartons	90/194	—	—	40/104

DHBP-20-IC5	20%, granules with PP	20	2.2	cartons	90/194	—	—	40/104
DHBP-45-IC2	45%, powder with chalk and silica	45	5.1	cartons	90/194	—	—	40/104
DHBP-45-PSI1	45%, paste in silicone	45	5.0	HDPE drum	90/194	—	—	30/86
CUROX® SOLAR SC	liquid, technically pure	95	10.4	HDPE canisters	90/194	—	10/50	40/104
Di-tert-butyl peroxide (CAS no. 110-05-4)								
DTBP	liquid, technically pure	>99	10.8	160 kg steel drum	>80/176	—	—	40/104
DTBP S-500	liquid, technically pure, conductive	>99	10.8	160 kg steel drum	>80/176	—	—	40/104
DTBP-75-AL	75%, solution in isododecane	75	8.2	IBC	>80/176	—	—	30/86
DTBP-50-AL	50%, solution in isododecane	50	5.5	IBC	>80/176	—	—	30/86
DTBP-50-AL4 (US)	solution in aliphatics	50	5.5	IBC	>80/176	—	—	30/86
2,5-Dimethyl-2,5-di(tert-butylperoxy)hexyne-3 (CAS no. 1068-27-5)								
DYBP (US)	liquid, technically pure	94	10.5	HDPE canisters	90/194	—	10/50	40/104
DYBP-85-WO	82%, solution in white oil	82	9.2	HDPE canisters	90/194	—	10/50	40/104
DYBP-45-IC2 (US)	45%, powder with chalk and silica	45	5.0	cartons	90/194	—	10/50	40/104
tert-Butyl hydroperoxide (CAS no. 75-91-2)								
TBHP-70-AQ	70%, aqueous solution	70	12.5	HDPE canisters 190 kg HDPE drum/IBC	>80/176	—	2/35	35/95
Cumyl hydroperoxide (CAS no. 80-15-9)								
CUROX® CUHP	80-85%, liquid mixture	80-85	8.5	HDPE canisters	60/140	—	—	30/86
2,3-Dimethyl-2,3-diphenylbutane (CAS no. 1889-67-4)								
CUROX® CC-DC	flakes, technically pure	—	—	cartons, Big Bag super sacks	—	—	—	—
CUROX® CC-DCF	liquid, technically pure	—	—	IBC	—	—	—	—

Poly-1,4-diisopropylbenzene (CAS no. 25822-43-9)

CUROX® CC-P3	flakes, technically pure	—	—	cartons	—	—	—	—
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Ammonium peroxodisulfate (CAS no. 7727-54-0)

APS	powder, technically pure	>99	7.0	25 kg bags	>130/266	—	—	30/86
APS-3	free flowing grade	>99	7.0	1.000 kg super sacks	>130/266	—	—	30/86

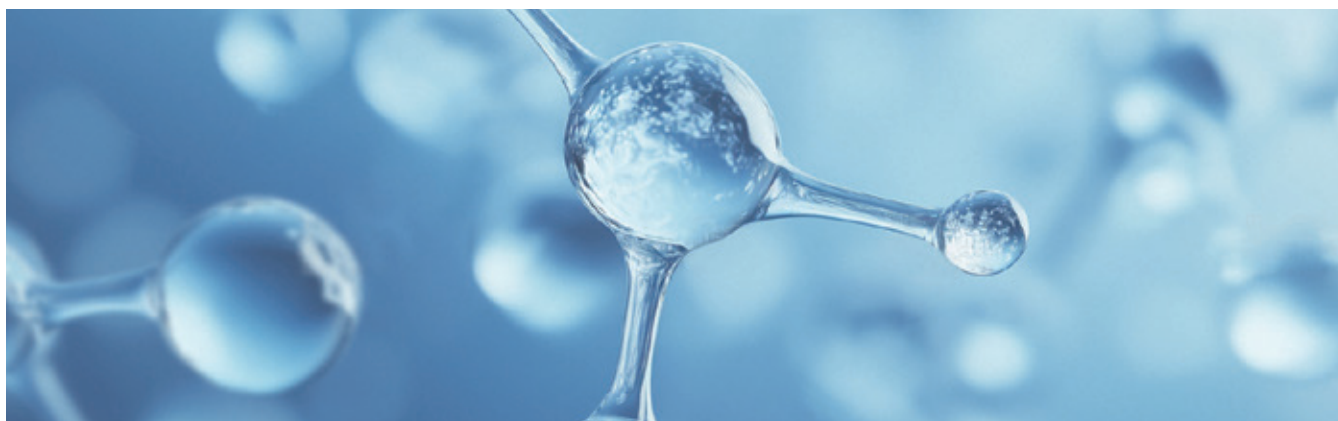


Sibelco, headquarter in Belgium, has more than 140 years of mineral mining experience. Its business throughout 41 countries on 5 continents and it owns more than 200 production bases all over the world.

Minerals	Product Name	Country of Origin	D50 (µm)	Hardness	Whiteness	Oil absorption (g/100g)	Specific surface area(m²/g)	pH	Specific Gravity	Bulk Density, loose(g/cm³)
Silica	PG5	Malaysia	5	7	88	32		6.7	2.65	0.55
	PG12		13.3		86	30	1.3	6.7		0.6
	PG15		14.8		85	29	1.2	6.7		0.64
	PG20		21.8		84	28	0.8	6.8		0.77
	PG40		23.6		83	26	0.6	6.9		0.82
Potassium Feldspar	PG-K3	Malaysia	3.5	6	92	28.1	4.75	10.1	2.65	0.39
	PG-K5		5.2		87	26.8	3.62		2.61	0.43
	PG-K7		7.3		86	25.8	2.8		2.61	0.47
	PG-K10		11.9	6	78	24.3	1.6	9.9	2.61	0.58
Sodium Feldspar	PG-F5	Malaysia	5.2	6	84	27	2.98	10.3	2.61	0.46
	PG-F7		7.1				2.34			0.49
Kaolin	C8	Malaysia	4.5		78	42	10	5.5	2.62	0.5
Nepheline Syenite	S3BL	Thailand	14.4	6	83.3	29	1.4	10	2.6	0.7-0.9
	S4BL		8.8		85.9		1.7			
	S7BL		6.1		87.1	30	1.9			
	S10BL		4		88.5		2.2			

Natural Barium Sulphate	B15	Thailand	5	3	84-88	14	2	9	14	1.8
	B25		7				2			2
	B45		11				1			2.2
	C15		5		80-83		2			1.8
	C25		7				2			2
	C45		10				1			2.2
Precipitated Barium Sulphate	PB-N05	China	0.5~0.7		98	10-30		6-9		
	PB-N10		0.8~1.3							
Quartz	Quartz 915	Taiwan	4.34	7	93.5	30	0.905	6.48	2.65	0.43
	Quartz 925		2.72		93	35	1.239	6.03		0.36
Silica	703	Taiwan	13.6	7	75	21	0.42	<9		
Com-posite	G2-C	Taiwan	2.7	5	97	36	1.1	8.8	0.93	0.31
	G500		7.6	5	97	28	0.57		0.93	0.43
Cristobalite (Calcined Quartz)	J72TS	Spain	~0.3mm	6.5	98	9	0.14	9-10	2.3	1.2
	J2500		18.5		98	33	1.20	9-10		0.6

Minerals	Product Name	Country of Origin	Total Solids Content	pH	Viscosity (Dilute 30% solids)	Density (g/cm³)
Engineered Silicates Dispersion (Latex Glove Filler)	ESD086A	Malaysia	45	11	50	1.38





Imerys is a world leading supplier of mineral based industrial specialty products, providing high value-added functional solutions for numerous industries from processing to consumer and construction products. The Group utilizes its applied knowledge, scientific expertise, and technical expertise to provide solutions that benefit its mineral resources and produce synthetic minerals and develop formulas. Therefore, Imerys provides customers with necessary performance for their products, such as fire resistance, hardness, conductivity, opacity, durability, purity, brightness, filtration, absorption, and rejection.

Grade	Category	Origin	Particle Size (Laser Diffraction D50)	Particle Size (Sedimentation D50)	Characteristics
Jetfine T1DN	Talc	China	1.1µm	4.3µm	Ultra-fine talc (D50 = 1.1 µm) for coatings and inks.
Jetfine 2N	Talc	China	1.9µm	5.3µm	Oil absorption 50 mL/100g; used in coatings and inks to provide superior hiding power (opacity) and enhanced-low-shear viscosity.
Jetfine 3DN	Talc	China	1.3µm	4.3µm	Jetfine 3DN is an extremely high purity, very white ultrafine grinded macrocrystalline talc. It provides outstanding stiffness/ impact strength balance in polymers with superior scratch resistance. It is soft compacted to obtain higher bulk density for increased compounding throughput with less dust.
Steamic T1DN	Talc	China	2.2µm	6.3µm	5000-mesh talc for automotive coatings, paints, and inks.
SteaShield 10W	Talc	China	2.4µm	10.7µm	Utilizes a high-aspect-ratio macro-lamellar structure to provide barrier protection as an anti-corrosive pigment replacement. Enhances salt spray, acid/alkali, and water resistance in paints and coatings; suitable for solvent-borne and anti-graffiti systems.
SteaShield 10HW	Talc	China	2.4µm	10.7µm	SteaShield 10W with higher whiteness.
K287	Diatomite	China			Cost-effective matting agent designed for gloss reduction and pigment extension in interior/exterior architectural coatings; also suitable for rubber reinforcement, liquid filtration, and thermal insulation materials.
K288	Diatomite	China			Flux-calcined diatomaceous earth, upgraded grade of K287. It features finer particle size and higher brightness compared with K287, delivering a smoother tactile feel for coatings. It offers moderate matting effect yet excellent surface texture of coating films. With good dispersibility and abundant pore structure, it shows favorable adsorption capacity and superior odor-removing performance.
C490	Diatomite	China			Low matting efficiency, but delivers superior surface smoothness and finish.
Carbital - 95	Calcium Carbonate	China			Carbital-95 is a medium ground calcium carbonate with good brightness and excellent rheological properties, designed primarily for general-purpose applications in matt coating, but more specifically for paper and board pre-coating applications. It is supplied in slurry form.
Imercarb® 40	Calcium Carbonate	China			Imercarb® 40 is a coated dry Calcium Carbonate produced from a selected high purity, natural occurring limestone resource. Imercarb® 40 is produced through intensified multiple stages of wet milling to achieve a steep particles size distribution and a very fine coarse particle control for PVC wire and cable, powder coating, sealants, and PP injection molding.
Imercarb 200®	Calcium Carbonate	China			Imercarb 200® is a coated dry Calcium Carbonate produced from a selected high purity, natural occurring limestone resource. Imercarb 200® is produced through intensified multiple stages of wet milling to achieve a steep particles size distribution and a good top cut for plastic film applications, adhesive and sealants.
Carbital s	Calcium Carbonate	China	0.7µm		Carbital S is a high whiteness calcium carbonate derived from pure white marble. It is characterised by minimum coarse particle and a controlled particle size distribution.



We progress with the times and move forward alongside the reforms. At present, our production base covers an area of more than 7,000 mu, with more than 4,000 employees and a total asset of CNY 14.733 billion. The industry covers biomass refining, electronic chemicals, new energy, phenolic resin and composite materials, casting materials, health medicine and other fields. Adhering to the business philosophy of "all for your needs", our products have been sold to more than 50 countries and regions such as Europe, America and Southeast Asia, providing more competitive products and solutions for tens of thousands of customers.

ETHERIFIED PHENOLIC RESIN

This series of products are mainly used as curing agent of epoxy resin, suitable for high temperature baking and curing. They are mainly applied to metal packaging coating, such as tinplate or aluminum packaging material coating.

Products	Type	Appearance	Viscosity (CP/25°C)	Solids Content(%)	Whether it contains bisphenol A or not.	Product Description
CR- 101	Etherified Phenolic Resin	Yellow or brownish red transparent liquid	1500- 1800	76-85	None	Medium reactivity, very high flexibility, water-boiling resistance
CR- 102	Etherified Phenolic Resin	Yellow or brownish red transparent liquid	300-800	55-65	None	Medium reactivity, excellent chemical resistance
CR- 103	Etherified Phenolic Resin	Light yellow transparent liquid	300-500	50-60	Yes	Medium reactivity, good flexibility and alkali resistance, light color
CR- 104	Etherified Phenolic Resin	Light yellow transparent liquid	300-500	50-60	None	Medium reactivity, good flexibility and alkali resistance, light color
CR- 105-2	Etherified Phenolic Resin	Light yellow transparent liquid	300-450	50-60	None	Medium reactivity, good flexibility and alkali resistance, light color
CR- 106	Etherified Phenolic Resin	Yellow transparent liquid	300-400	58-65	Yes	Very high reactivity, light color, good bactericidal property, and moderate flexibility
CR 107	Etherified Phenolic Resin	Brownish red transparent liquid	200-300	56-65	None	Very high reactivity, catalyst is not recommended above 160°C, suitable for coil coating
CR 108	Etherified Phenolic Resin	Yellow or brownish red transparent liquid	1200- 1500	55-65	None	Excellent sulfur resistance, excellent overall performance, medium reactivity, good toughness
CR- 112	Etherified Phenolic Resin	Light yellow or yellow transparent liquid	350-450	58-65	None	Suitable for waterborne epoxy coatings
CR- 113	Etherified Phenolic Resin	Yellow or brownish red transparent liquid	42-62	48-58	None	Excellent sulfur resistance, excellent overall performance, medium reactivity, good toughness
CR- 114	Alcohol soluble phenolic aldehyde	Light yellow or yellow transparent liquid	350-750	66-75	None	Suitable for alcohol-soluble anti-corrosive coatings
CR115	Etherified Phenolic Resin	Yellow or brownish red transparent liquid	300-600	56-65	None	High toughness, medium reactivity, combined with epoxy/polyvinyl butyral/polyester resins
CR116	Etherified Phenolic Resin	Yellow transparent liquid	400-600	56-63	Yes	Very high reactivity, light color, good bactericidal property, and moderate flexibility
CR117	Etherified Phenolic Resin	Yellow or brownish red transparent liquid	900- 1200	56-62	None	Medium reactivity, good flexibility and alkali resistance
CR118	Etherified Phenolic Resin	Yellow transparent liquid	500- 1000	57-63	None	High reactivity, low flexibility, used for can coating
CR1301	Etherified Phenolic Resin	Brown or red transparent liquid	1000-2000	61-70	None	Tinting phenolic, polyurethane system available
CR1307	Etherified Phenolic Resin	Dark red transparent liquid	1000-2000	63-68	None	Low reactive tinting phenolic, available in polyurethane systems

WATERBORNE EPOXY RESIN PRODUCT DESCRIPTION

Product model of SQ	Epoxy Equivalent	Viscosity (mpa.s/25°C)	Solids Content (200°C, 1 g, 10 min)	Scope of Application
CR-G-400U	3500-4500	20-50	18-20	Epoxy resin for aqueous high temperature baking varnish. It is used in the fields of metal high-temperature anti-corrosive coating, coil steel back coating, wire insulation coating, zipper coating and the like.
CR-G-401U	3000-5000	100-300	27-32	
CR-G-401U-N	3000-5000	100-300	27-32	

CARDANOL EPOXY CURING AGENT

Products	Color (Gardner Color Scale)	Volume Solids(%)	Viscosity (CPS)@25C	Active Hydrogen Equivalent	25/5°C Surface Dry (Hours)	Product Description	Scope of Application
CR2001	13	Solvent-free	28000	132	3/12.5	High viscosity, good substrate surface tolerance, excellent corrosion protection	Coatings and adhesives for ships, industrial and vehicles, building adhesives
CR2001D	10	Solvent-free	2500	125	7/17	Low viscosity, light color	Coatings for ships, industrial and vehicles, building adhesives
CR2003	11	Solvent-free	620	95	4.5/18.5	Fast curing, excellent adhesion, light color, solvent-free	Coatings for ships, industrial and vehicles, solvent-free floor primers
CR2009	7	Benzyl Alcohol	370	95	4/12	The paint film has good appearance, good yellowing resistance, fast curing and high cost performance	Coatings for industrial and vehicles, topcoats
CR2011	2	Benzyl Alcohol	80	82	1.5/6	Low viscosity, fast curing, excellent corrosion resistance	Coatings for ships, industrial and vehicles, building adhesives
CR2454	11	Solvent-free	1080	133	2/7.5	Faster curing, excellent film appearance, solvent-free	Ships, industrial and adhesives, solvent-free floor primers, building adhesives
CR2540	15	Solvent-free	2000	81	3.5/13	Low viscosity, good substrate surface tolerance, solvent-free	Coatings for ships, industrial and vehicles, building adhesives
CR2558	15	Solvent-free	900	95	10/27	Low viscosity, excellent adhesion to untreated substrates, solvent-free	Ships, industrial and adhesives, solvent-free floor primers, building adhesives
CR2650	16	Solvent-free	30000	198	5/25	High cost-effective products, it can replace conventional polyamide products.	Coatings for ships, industrial and vehicles

CR205	15	75	12000	151	2/6.5	Fast curing, high viscosity	Coatings for ships, industrial and vehicles
CR2017	15	Solvent-free	15000	175	4/12	Good toughness, paint film has good appearance, good low-temperature leveling	Coatings for ships, industrial and vehicles
CR2019	15	70	3500	178	2/6	Low viscosity, fast curing, good low-temperature leveling	Coatings for ships, industrial and vehicles
CR2055	15	75	4500	190	4/10	Low viscosity, moderate curing speed and good substrate adhesion	Coatings for ships, industrial and vehicles
CR2541	16	Solvent-free	28000	130	5/15.5	Low-temperature curing, good substrate surface tolerance, excellent corrosion protection	Coatings and adhesives for ships, industrial and vehicles, building adhesives
CR2641	16	Solvent-free	25000	130	4/13.5	Lower free amino, better film appearance, faster cure version	Coatings and adhesives for ships, industrial and vehicles, building adhesives
CR2556	14	80	4500	135	3.5/12	Fast curing and hardness development, high volume solids	Coatings for industrial and vehicles
CR2562	9	65	1500	174	2.5/7.5	Light color, fast curing, good anti-whitening performance and good adhesion	Coatings for ships, industrial and vehicles
CR2777	15	75	2500	190	3/8	Low viscosity, fast curing	Coatings for ships, industrial and vehicles

POLYAMIDE EPOXY CURING AGENT

Product Model	Color (Gardner Color Scale)	Volume Solids(%)	Viscosity (CPS)@40C	Active Hydrogen Equivalent	25/5°C Surface Dry (Hours)	Product Description	Scope of Application
CR650	10	Solvent-free	75000	196	6/30	Long operating cycle, excellent flexibility, excellent adhesion	Coatings for ships, industrial and vehicles, adhesives
CR2115	7	Solvent-free	60000	196	7/35	It has good adhesion to the surface of solidified materials such as metal and plastic, etc.	Coatings for ships, industrial and vehicles, adhesives

CR2140	15	Solvent-free	4000	95	2/10	It has good adhesion to the surface of solidified materials such as metal and plastic, etc.	Coatings for ships, industrial and vehicles, adhesives
CR2305	12	Solvent-free	50000	196	10/24	Excellent water resistance, good flexibility and adhesion	Coatings for ships, industrial and vehicles, adhesives

PHENOLIC AMINO EPOXY CURING AGENT

Product Model	Color (Gardner Color Scale)	Volume Solids(%)	Viscosity (CPS)@25C	Active Hydrogen Equivalent	25/5°C Surface Dry (Hours)	Product Description	Scope of Application
CR231	7	80	500	80	1/4	Long operating cycle, excellent flexibility, excellent adhesion	Coatings for ships, industrial and vehicles, adhesives
CR232	7	Solvent-free	2000	65	1/4.5	It has good adhesion to the surface of solidified materials such as metal and plastic, etc.	Coatings for ships, industrial and vehicles, adhesives

EPOXY FLOOR CURING AGENT

Product Model	Appearance	Viscosity (CPS)@25C	Active Hydrogen Equivalent	25/5°C Surface Dry (Hours)	Product Description	Scope of Application
CR2701	Yellowish brown liquid	4000-8000	160	3/11	Fast curing, high viscosity, high solid content, high dilution factor	Floor primer curing agent
CR2702	Yellowish brown liquid	5000- 10000	95	3/8.5	Fast curing, high film-forming hardness	Floor intermediate curing agent
CR2703	Red-brown liquid	500- 1000	130	2.5/7	Thick paste is uniformly and rapidly solidified, and the cured product has high hardness and does not foam.	General curing agent for floor primer and intermediate coating

PHENOLIC AMINO EPOXY CURING AGENT

Product Model	Color (Gardner Color Scale)	Volume Solids(%)	Viscosity (CPS)@25C	Active Hydrogen Equivalent	25/5°C Surface Dry (Hours)	Product Description	Scope of Application
CR2801	14	Solvent-free	3000	130	60	Low viscosity, fast curing, high adhesion of steel structure and stone	Industrial coating and adhesive, building adhesive, stone dry hanging
CR2802	14	Solvent-free	2500	130	30	Low viscosity, fast curing, high adhesion of steel structure and stone	Industrial coating and adhesive, building adhesive, stone dry hanging

DIMETHYLBENZALDEHYDE RESIN

Product Model	Color Number	Oxygen Content	Viscosity	Content of Non-volatile Matter (105°C 1h)	Acid Number	Appearance	Scope of Application
XR-03	≤6	9-13	110- 150 ^①	≥95	≤0. 1	Light yellow liquid	Plasticization of unsaturated resin, insulating paint and coating
XR-06	≤1	7-9	80- 110	≥85	≤0. 1	Colorless transparent liquid	Coating plasticization, thinner
XR-08	≤1	7-9	2000-2500	≥90	≤0. 1	Colorless transparent liquid	Coatings, adhesives
XR-09	≤6	9-11	400-600	≥80	≤0. 1	Light yellow liquid	Coatings, adhesives
XR- 10	≤1	9-13	10000 ^②	≥95	≤0. 1	Colorless transparent liquid	Coatings, inks, adhesives

①: Resin 80% toluene solution

②: Viscosity can be adjusted as required

Non-delivery standard value



Shanghai L.A. Chemical Science Co.,Ltd., is a technology oriented chemical new materials company, relying on continuously innovative technology and stable production to provide customers with more cost-effective and unique products and solutions. At present, the main products of Lanthanum Actinide include high-performance Photocuring colorants, special adhesion promoters, and special additives.

Highly adaptable pure UV color paste

Product Name	Pigment NO.	Description	Pigment Content	Lightfastness	Thermal stability(°C)	Acid resistance	Alkali resistance	Colour
L.A.9W012	PW6	High Coverage White	75.0%	8	—	—	—	
L.A.9B001	PBK7	Blue Phase Black	20.0%	8	—	—	—	
L.A.9B008	PBK7	High Coverage Black	20.0%	8	—	—	—	
L.A.9R111	PR122	Magenta/Rose	12.0%	8	250	5	4-5	
L.A.9R002	PR146	Pure Red	18.0%	6	180	5	5	
L.A.9R006	PR149	Highly Transparent Yellow Phase Red	10.0%	8	200	5	5	
L.A.9R128	PR254	Chinese Red	25.0%	8	200	5	5	
L.A.9R009	PR176	Bluish Phase Red	15.0%	7	200	5	5	
L.A.9R015	PR254	High Transparency Bright Red/Chinese Red	10.0%	8	200	5	5	
L.A.9R018	PV19	Blue Phase Red	15.0%	7-8	250	5	4-5	
L.A.9R021	PVX	Red Phase Purple	15.0%	7-8	200	5	5	
L.A.9R023	PRX	Dark Red	16.0%	8	250	5	4-5	
L.A.9R027	PR101	Transparent Iron Oxide Red	40.0%	8	350	5	5	
L.A.9Y111	PY151	Lemon Yellow	25.0%	8	200	5	3	
L.A.9Y002	PY180	Highly Transparent Yellow	25.0%	7-8	200	5	5	
L.A.9Y113	PO36	Red Phase Orange	25.0%	8	160	5	5	
L.A.9Y005	PO73	Highly Vivid Yellow Phase Orange	18.0%	8	200	5	5	
L.A.9Y006	PY139	High Coverage Red Phase Yellow	20.0%	7-8	200	4	2	
L.A.9Y008	PY150	Highly Transparent Green Phase Yellow	20.0%	8	250	5	5	
L.A.9Y014	PY42	Transparent Iron Oxide Yellow	35.0%	8	350	5	5	
L.A.9S001	PB15:1	Red Phase Blue	20.0%	8	200	5	5	
L.A.9S002	PB15:4	Green Phase Blue	25.0%	8	200	5	5	
L.A.9S277	PV23	Purple	10.0%	7-8	250	5	5	
L.A.9S005	PB29	Ultramarine Blue	45.0%	8	350	1	2-3	
L.A.9S007	PV19	Red Phase Purple	15.0%	7-8	200	5	5	
L.A.9G162	PG7	Green	15.0%	8	200	5	5	
L.A.9N001	PB25	Brown	10.0%	8	200	5	5	

IBOA system high transparent color paste

Product Name	Pigment NO.	Description	Colour
L.A.9W252	PW6	High Transparency White	
L.A.9B282	PBK7	High Transparency Black	
L.A.9B241	PBK7	Highly Transparent black	
L.A.9R221	PR177	High Transparency Ferrari Red	
L.A.9G251	PG36	Highly Transparent green	
L.A.9S271	PB15:4	Highly Transparent blue	
L.A.9Y211	PY180	Highly Transparent yellow	
L.A. 9Y212	PY150	High Transparency Yellow	

By selecting IBOA monomers and high-transparency, high-brightness pigments, and using inkjet technology, the impact of pigments on system performance and curing is minimized to the maximum extent.

Inkjet colorant

Product Name	Pigment NO.	Description	Pigment Content	D50(μm)	Colour
L.A.9W551	PW6	Inkjet white	65%	0.40	
L.A.9S275	PB15:4	Greenish Blue	20%	0.08	
L.A.9R225	PR122	Magenta	20%	0.18	
L.A.9Y215	PY150	Inkjet yellow	15%	0.08	
L.A.9B242	PBK7	Inkjet Black	30%	0.08	

Wax emulsion

Product Name	Type	pH	Applications & Properties
LA SW 89	Modified Paraffin Emulsion	7-9	Improves surface characteristics in water-based coatings and inks. Provides hydrophobicity, enhances anti-blocking, increases surface slip, scratch resistance, abrasion resistance, and imparts a soft feel.
LA SW 62	Polyethylene Wax Emulsion	7-9	Excellent RCA resistance and sweat resistance.
LA SW 27	Polyethylene Wax Emulsion	4-6	Suitable for acidic systems. High abrasion and scratch resistance. Does not affect recoatability.
LA SW 23	Wax Emulsion	7-9	Enhances abrasion resistance, scratch resistance, anti-blocking, slip, and hardness in water-based coatings and inks. pH-independent, ionic stability-independent. Excellent freeze-thaw stability. Does not affect recoatability. Good film clarity.
LA SW 70	Polyethylene Dispersion	7-9	Provides matte finish, slip, and abrasion resistance.
LA SW 63H	Paraffin Emulsion	7-9	Imparts water resistance, anti-blocking, and slip functionality to coatings.
LA SW 26	PP Wax Emulsion	7-9	Applied in floor paints for surface moisture resistance and wear resistance. Good resistance to water whitening.
LA SW 28	Wax Emulsion	9-11	Used in ink coatings, industrial coatings, inks, overprint varnishes, leather finishes, floor waxes, and release agents to provide smoothness and abrasion resistance.

Adhesion promoter

Product Name	Applicable Systems	Addition Method	Application Method	Application Areas and Performance
LA A3015	Water-based	Pre-addition	Baking	Enhances the adhesion of coatings on metal substrates and electrophoretic coatings, and can also improve intercoat adhesion, recoat adhesion, and the flexibility of the paint film.
LA EZ 7847	Water-based	Pre-addition	Baking	It reacts with carboxyl groups in water-based polymers to improve water resistance, chemical resistance, heat resistance, and provides excellent adhesion to various substrates.
J&Y 3124	Water-based or Solvent-based	Pre-addition	Water-based baking / Solvent-based air-dry	Enhances adhesion to inorganic materials such as glass and metals, providing a permanent bond with inorganic substrates under humid and hot conditions; Exhibits excellent dispersing and wetting properties, and can be miscible with alcohol-based solvents in any proportion; Improves the flexibility of epoxy resins, enhances the resin's wettability and penetration on inorganic substrates, and improves the dispersibility and anti-settling performance of inorganic materials within the resin.
J&Y 3134	Water-based or Solvent-based	Post-water addition Pre-oil addition	Baking	Significantly enhances adhesion to inorganic materials such as glass and metals, providing a permanent bond with inorganic substrates under humid and hot conditions.
LA A2012	Water-based or Solvent-based	Pre-addition	Air-dry / Baking	Used to enhance the adhesion of coatings to metal substrates (including aluminum, magnesium), ABS, PC, nylon 66, etc., significantly improving salt spray resistance and moisture-heat resistance. It also enhances interlayer adhesion of coatings and recoat adhesion.
LA A2013	Water-based or Solvent-based	Pre-addition	Air-dry / Baking	Used to enhance the adhesion of coatings to metal substrates (including aluminum and magnesium), ABS, PC, nylon 66, etc., significantly improving salt spray resistance and moisture-heat resistance. It also enhances interlayer adhesion of coatings and recoat adhesion.
LA P100	Water-based or Solvent-based	Pre-addition	Air-dry / Baking	Used in adhesives and coatings to enhance adhesion to various substrates. Industrial paints, can coatings, adhesives.
LA 1220	Water-based or Solvent-based	Pre-addition	Air-dry / Baking	It significantly enhances adhesion to inorganic materials such as glass and metal, providing a permanent bond with these materials under humid and hot conditions. It exhibits excellent dispersibility and wettability and is fully miscible with alcohol-based solvents in any proportion. It increases the flexibility of epoxy resins, improves the wetting and penetration of the resin on inorganic substrates, and enhances the dispersibility and anti-settling properties of inorganic materials within the resin. As an adhesion promoter, it offers superior stability and long-lasting effectiveness, with low volatile content.
LA 3936	Water-based or Solvent-based	Pre-addition	Air-dry / Baking	Used to enhance the adhesion of coatings to metal substrates (including aluminum and magnesium), ABS, PC, nylon 66, etc., significantly improving salt spray resistance and moisture-heat resistance. This product offers excellent temperature resistance and can be used in the production of heat-resistant and chemical-resistant coatings and films. It can also be added to polymer films, adhesives for high-molecular materials, and other fields requiring high-temperature applications. Additionally, it enhances interlayer adhesion, recoat adhesion, and adhesion to electrophoretic primer surfaces.
J&Y T400	Solvent-based or UV	Pre-addition	Baking/UV	It enhances the initial and long-term adhesion of paint films or inks to substrates such as glass and plastics; improves the water resistance and humidity/heat resistance of coatings or inks.
LA 1019	Solvent-based or UV	Pre-addition	Baking/UV	Possesses excellent water solubility and fast reactivity. Suitable for use in both water-based and solvent-based systems. It rapidly forms a dense silicone film on metal substrates, improving salt spray resistance and water resistance. Suitable for use in electrodeposition primers to enhance long-term salt spray resistance.
J&Y V207	Solvent-based or UV	Pre-addition	Baking/UV	Suitable for adhesion promotion in flexible materials or coating systems and adhesives requiring tensile or elongation properties. Excellent reactivity, particularly effective in enhancing adhesion to difficult-to-bond metal substrates. In free-radical curing systems, it assists in improving crosslinking performance, achieving low moisture permeability and low gas permeability.
J&Y 3844-2	Solvent-based or UV	Pre-addition	Baking/UV	In free-radical curing systems, it aids in enhancing crosslinking performance, achieving low moisture permeability and low gas permeability. When added to thermoplastic materials, it improves the processability of the resin and imparts excellent surface viscoelastic properties to the material, providing waterproofing and anti-slip effects. Incorporated into multi-layer co-extruded films, it effectively inhibits the migration of interlayer additives and improves interlayer adhesion. It also demonstrates excellent adhesion-promoting effects on difficult-to-bond metal substrates (such as aluminum and magnesium-aluminum-zinc plates).

J&Y N3103	Solvent-based or UV	Pre-addition	Baking/UV	It can be used in polyurethane, epoxy, nitrile, and phenolic adhesives and sealants, improving pigment dispersibility and enhancing adhesion to materials such as glass, aluminum, stainless steel, silver metal, indium tin oxide, and untreated PET. When applied in solvent-based coatings and ink systems, it provides the film with good open time and interlayer adhesion, and effectively promotes adhesion to plastic substrates such as PC, PMMA, PET, etc.
J&Y N35	Solvent-based or UV	Pre-addition	Air-dry Baking/UV	It is used in silicone, polyurethane, epoxy, and acrylate adhesives and coating materials to improve pigment dispersion and enhance the adhesion of adhesives and coatings to inorganic materials such as glass, aluminum, iron, stainless steel, and indium tin oxide. It is also suitable as an adhesion promoter for non-corona-treated PET, electroplated layers, and polyurethane-coated surfaces.
LA 5416	Solvent-based or UV	Pre-addition	Air-dry Baking/UV	It is suitable for UV-curable vacuum electroplating topcoat paints, plastic gloss spray coatings, inks and laminated adhesives, glass coatings, metal coatings, circuit board UV-curable solder mask inks, metal inks, and UV wood paints. In free radical curing systems, it assists in enhancing crosslinking performance, achieving low moisture permeability and low gas permeability. When added to thermoplastic plastics, it improves the processability of the resin and imparts excellent surface viscoelastic properties, as well as waterproofing and anti-slip effects. When incorporated into multi-layer co-extruded films, it effectively inhibits the migration of interlayer additives and enhances interlayer adhesion. For difficult-to-bond metal substrates such as copper, it demonstrates excellent adhesion-promoting effects.
LA 791	Solvent-based or UV	Pre-addition	Baking/UV	It can significantly enhance the adhesion of coatings or adhesives to inorganic materials such as glass, silicon wafers, and metals, particularly providing a permanent bond under humid and hot conditions. Compared to monomeric silanes, it improves adhesion under such conditions at the same dosage level.
LA 3912	Solvent-based or UV	Pre-addition	Baking/UV	Polyurethane systems: Improve the storage stability of isocyanate systems and prevent premature gelation. Epoxy resin/acrylic systems: Serve as a coupling agent to enhance adhesion to substrates such as metal and glass. Electronic packaging materials: Used in LED packaging, potting compounds, etc., to improve interface compatibility. Coatings/adhesives: Enhance coating adhesion to substrates and weather resistance. Composite materials: Applied for surface treatment of glass fibers and inorganic fillers.
J&Y 3934T	Solvent-based or UV	Pre-addition	Baking/UV	Used to enhance the adhesion of coatings to metal substrates (including aluminum, magnesium), ABS, PC, nylon 66, etc. Significantly improves salt spray resistance and (damp heat) resistance. It also enhances interlayer adhesion, recoat adhesion, and adhesion to electrodeposition primer surfaces. Exhibits excellent temperature resistance, making it suitable for applications above 300°C where traditional adhesion promoters cannot be used.
LA 1219	Solvent-based or UV	Pre-addition	Baking/UV	It can be used as an adhesion promoter, a primer, and a modifier for organic resins. Particularly in low-temperature self-drying systems, it provides adhesion without affecting the open time of the coating. For example, it improves adhesion to glass and ceramics in solvent-borne one-component acrylic self-drying systems.
J&Y 3250	Water-based or Solvent-based	Pre-addition	Baking	It can significantly enhance the adhesion of ink to glass substrates, improve the alkali resistance and moisture-heat resistance of the ink. Compared to aminosilanes, it offers better high-temperature color stability and can be used in white inks.

Fluorosilane

Product Name	CAS	Chemical Name	Content(GC)%
LA FS-1113	85857-16-5	Tridecafluorooctyltrimethoxysilane	≥97
LA FS-1313	83048-65-1	Heptadecafluorodecyltrimethoxysilane	≥97
LA FS-1419	51851-37-7	Tridecafluorooctyltriethoxysilane	≥97
LA FS-1619	101947-16-4	Heptadecafluorodecyltriethoxysilane	≥97

Silica Sol

Can be used in ceramic coatings, metal surface treatment, inorganic coatings and other industries

Product Name	Particle Size(nm)	Solid Content(%)	pH
J&Y 1430	10	30	9.7
J&Y 1440	14	40	9.7
J&Y C10045	100	45	9.9
J&Y C1030M	10	30	7.0
J&Y C1230	12	30	3.8
J&Y C2040	20	40	9.9
J&Y C3045	30	45	9.8
J&Y C5050	42	50	9.9
J&Y D1020	10	20	3.2
J&Y D1030/1	10	30	3.5
J&Y D8040	86	40	10.0
J&Y E10843	108	43	10.0
J&Y F2530	25	30	3.8
J&Y F4030	40	30	3.8

Modified epoxy emulsion

Product Name	Type	Solid content%	pH	Viscosity mPa.s(cps/23°C)	Application	Features
LA ER 037	Epoxy acrylic emulsion	44.0-46.0	7.0-9.0	500-4000	Metal baking enamel, automotive primer and mid-coat paints, etc.	High flash point, environmentally friendly and safe; miscible with water in any proportion.
LA ER 038	Modified epoxy resin/cationic emulsion	38.0-42.0	5.0-7.0	300-3000	Wood sealers, paper varnishes, rust repair paints, etc.	Low demand for coalescing agents, resulting in low VOC emissions; exhibits excellent water resistance and good salt spray resistance.

Curing Agent

Product Name	Type	Solid content%	Viscosity mPa.s(cps/23°C)	Amine value (mg KOH/g)	Active hydrogen equivalent weight	Application characteristics
LA EC 724	Waterborne epoxy curing agent	78-82	10000-30000		140	Excellent salt spray resistance; good film flexibility; long pot life.
LA EC 704	Waterborne epoxy curing agent	78-82	11000-30000	220±10	115	Fast reaction speed with excellent drying performance; good water resistance and salt spray resistance.
LA EC 756	Waterborne epoxy curing agent	43-47	50-3000		345(supply)	Fast drying; excellent adhesion; rapid hardness development; outstanding salt spray resistance; improves formulation stability.
DMP-30	Epoxy accelerator and trimerization catalyst	>99	120-260	580-630		Low color, low viscosity, and low dosage. It acts as an epoxy accelerator and a polyurethane trimerization catalyst with fast reaction speed.
LA XL40	Water-based Polycarbodiimide Dispersion	39-41	100-600			Light color, odorless; Low viscosity, easy to handle; Very long pot life; Good weather resistance, wide range of applications.

Product Name	Type	Solid content%	Viscosity mPa.s(cps/23°C)	NCO content%	De-blocking temperature (°C)	Application characteristics
LA XL30	Water-based Blocked Curing Agent based on Aliphatic Isocyanate	30-33	< 500	12.0-14.0	110-130	Excellent gloss and hardness; Outstanding chemical and weather resistance; Good resin compatibility and storage stability.
LA XL31	Water-based Blocked Curing Agent based on Aliphatic Isocyanate	30-32	< 500	10.5-12.5	110-130	Excellent gloss and hardness; Outstanding chemical and weather resistance; High transparency, good resin compatibility and storage stability; Free of harmful solvents.

Product Name	Type	Solid content%	Viscosity mPa.s(cps/23°C)	NCO content%	Application characteristics
LA ER 69	Hydrophilic Aliphatic Isocyanate Curing Agent based on HDI	100	4500-7500	15.7-16.7	Good clarity, flexibility, long pot life.
LA ER 79	Hydrophilic Aliphatic Isocyanate Curing Agent based on HDI	100	2000-4000	20.5-21.5	High hardness, high gloss.
LA EA 80	Hydrophilic Curing Agent based on Aliphatic Isocyanate	100	2000-3000	17.0-18.0	Excellent resistance properties; Low viscosity, easy to handle; Long pot life.
LA ED 85	Hydrophilic Curing Agent based on Aliphatic Isocyanate	100	1000-2000	21.5-22.5	Excellent matting effect; Excellent water dispersibility, no need for solvent dilution; Long pot life.
LA EC 82	Hydrophilic Curing Agent based on Aliphatic Isocyanate	80	500-1500	12.5-13.5	Excellent gloss and fullness; Low viscosity, odorless; Long pot life.

Bio-based Silica Series

Bio-based Silica Dispersion

Product Name	Average Particle Size D50 (μm)	pH	Application	Application Range
LA NS335	2-4	8-11	This product uses nanotechnology and dispersants to prepare bio-based silica dispersion, featuring good dispersibility, high solid content, and high stability. It offers greater application advantages during production compared to traditional nano-silica powders, providing anti-fouling, heat resistance, hardness enhancement, improved abrasion resistance, and ultra-smooth surface properties.	1. Waterborne coatings. 2. Application in waterborne inks. 3. Application in polishing liquids. 4. Application in waterborne adhesives and sealants. 5. Used as a reinforcing agent in latex products. 6. Application in the textile industry. 7. Application in the paper manufacturing industry.
LA NS405	0.3-0.7	8-11		
LA NS505	0.3-0.7	8-11		

Bio-based Anti-caking Agent

Product Name	Average Particle Size D50 (μm)	Specific Surface Area(m²/g)	Oil Absorption (g/100g)	pH	Application	Functions & Benefits
LA PP170	6-9	170±20	2-3.5	5-8	This product uses renewable resources such as rice husks and straw as raw materials to prepare anti-caking bio-based silica (also known as bio-based white carbon black / rice husk silica / rice husk white carbon black) via a carbon dioxide acidification process. It is a white, non-toxic, amorphous micro-spherical material.	Bio-based silica can be used as an anti-caking agent for powder coatings and other products, as well as a thickener, stabilizer, carrier, clarification aid, and adsorbent/desiccant for flavors and fragrances.

Bio-based White Carbon Black (Hydrophilic Type)

Product Name	Average Particle Size D50 (μm)	Specific Surface Area(m ² /g)	Oil Absorption (g/100g)	pH	Surface Treatment	Application	Functions & Benefits
LA PA430	3-4.5	180-250	220-300	6-8	None	This product is synthesized from rice husks and carbon dioxide using a special carbon dioxide precipitation acidification process with surface treatment. This product features high matting efficiency and effectively reduces film gloss to meet low-gloss requirements in various application scenarios.	Specialized hydrophilic matting additive with excellent compatibility with waterborne systems. It is suitable for various coating processes with stable matting performance, and is widely used in waterborne UV coatings, industrial paints, and waterborne inks.
LA PA450	4.5-6	180-250	220-300	6-8	None		
LA PA480	7-8.5	180-250	220-300	6-8	None		

Bio-based White Carbon Black (Hydrophobic Type)

Product Name	Average Particle Size D50 (μm)	Specific Surface Area(m ² /g)	Oil Absorption (g/100g)	pH	Surface Treatment	Application	Functions & Benefits
LA PB430	3-4.5	180-250	180-280	6-8	Treated	This product is synthesized from rice husks and carbon dioxide using a special carbon dioxide precipitation acidification process with surface treatment. This product features high matting efficiency and effectively reduces film gloss to meet low-gloss requirements in various application scenarios.	Specialized hydrophobic matting additive with outstanding compatibility with oil-based and solvent-borne systems. It is adaptable to various application methods such as curtain coating, roller coating, and spray coating, delivering stable and clear matting performance. It is widely used in solvent-based UV coatings, industrial paints, wood coatings, anti-corrosion paints, and oil-based printing inks.
LA PB450	4.5-6	180-250	180-280	6-8	Treated		
LA PB480	7-8.5	180-250	180-280	6-8	Treated		

Matting powder

Product Name	SiO ₂ content (dry basis)%	Porosity (ml/g)	Average particle size D50(μm)	Oil absorption value (g/100g)	Loss on drying (2h at 105℃)%	Weight loss on burning(2h at 1000℃)%	pH	Surface treatment
LA XG721	≥99	1.8~2.0	4.5	260~320	≤5	≤5	5~7	special handling
LA XG721M	≥99	1.8~2.0	4.5	260~320	≤5	≤15	5~7	organic
LA XG731	≥99	1.8~2.0	4.6	260~320	≤5	≤5	5~7	special handling
LA XG731M	≥99	1.8~2.0	4.6	260~320	≤5	≤15	5~7	organic
LA XG741	≥99	1.8~2.0	5.5	260~320	≤5	≤5	5~7	special handling
LA XG741M	≥99	1.8~2.0	5.5	260~320	≤5	≤15	5~7	organic
LA XG761	≥99	1.8~2.0	6.3	260~320	≤5	≤5	5~7	special handling
LA XG761M	≥99	1.8~2.0	6.3	260~320	≤5	≤15	5~7	organic
LA XG771	≥99	1.8~2.0	8	260~320	≤5	≤5	5~7	special handling

LA XG771M	≥99	1.8~2.0	8	260~320	≤5	≤15	5~7	organic
LA XG971	≥99	1.2~1.4	5.5-6.0	170~210	≤7	≤7	5~7	special handling
LA XG981	≥99	1.2~1.4	7.4-8.0	170~210	≤7	≤7	5~7	special handling
LA XG1011	≥99	1.6~1.8	5.6-6.0	260~320	≤5	≤5	5~7	special handling
LA XG1066	≥99	1.6~1.8	6.3-7.0	260~320	≤5	≤5	5~7	special handling
LA XG1066M	≥99	1.6~1.8	6.3-7.0	260~320	≤5	≤15	5~7	organic
LA XG 543	≥98.5	1.6~1.8	3.2	260~320	≤5	≤6	5~7	special handling
LA XG 549	≥98.5	1.6~1.8	3.8	260~320	≤5	≤6	5~7	special handling
LA XG 796	≥99	1.8~2.0	8.5	260~320	≤5	≤5	5~7	special handling
LA XG 796M	≥99	1.8~2.0	8.5	260~320	≤5	≤15	5~7	organic
LA XG 816	≥98.5	1.3~1.4	4.1	330~370	≤6	≤6	5~7	-
LA XG 983	≥99	1.2~1.4	7.4-8.0	170~210	≤7	≤20	5~7	special handling

Multifunction additive

Product Type	ITEM NO.	Characteristic	Activity%
Wetting agent	LA WET 4100N	This additive is a foam-inhibiting wetting and leveling agent with a special molecular structure. It delivers outstanding substrate wetting, defoaming performance, as well as leveling and crater prevention effects. It also features excellent universal compatibility with all kinds of emulsions and resins. It can be applied to various water-based, solvent-borne, solvent-free and partial radiation-curable systems with prominent compatibility and no adverse side effects.	>99%
	LA WET 333	This product is polyether-modified dimethylsiloxane. It is an organosilicone surface additive applicable to solvent-borne, solvent-free and water-based systems. It is widely used in industrial coatings, printing inks, adhesives and room-temperature-curing plastic systems, and can drastically reduce surface tension.	100%
	LA WET 307	This product is polyether-modified polysiloxane.	100%
	LA WET 3777	This product is a fluorocarbon-modified acrylic leveling agent, suitable for most solvent systems including alkyd, acrylic, saturated polyester baking coatings, polyurethane systems, two-component epoxy systems and air-dry alkyd systems. It can greatly reduce surface tension and achieve instant leveling. Recoating is available without impairing interlayer adhesion. It features excellent compatibility with various resin systems, rapidly wets substrates and provides outstanding crater prevention performance.	100%
	LA SL 5000	This product is linear organofunctional polysiloxane. Thanks to its terminal hydroxyl groups, it is compatible with epoxy resin, acrylic resin, polyurethane, polyester, coatings and other systems. It enhances anti-graffiti performance, improves surface smoothness and gloss, and delivers substrate wetting and anti-cratering effects.	≥97%

Wetting agent/ defoaming agent	TL-104E	TL-104E surfactant is a multi-functional additive with wetting, defoaming and dispersing properties. It is a symmetric nonionic surfactant. Its unique Gemini chemical structure endows the product with characteristics including surface tension reduction, foam control and lowered water sensitivity. It can be applied in multiple industries, such as water-based industrial coatings, water-based woodcoatings, water-based plastic coatings, water-based inks, overprint varnishes (OPV), pressure-sensitive adhesives, pigment and dye manufacturing, metal processing, soldering fluxes, pesticides and so on.	
Defoaming agent	LA DF 024S	LA DF 024S is a mixture of foam-breaking polysiloxane and hydrophobic particles in polyethyleneglycol. It contains no VOCs. It is applicable to water-based latex paints, printing inks, overprint varnishes and emulsion adhesives. It features good compatibility, multi-purpose performance and easy addition.	>99%
	LA DF 900	It is an excellent foam control and defoaming agent. It delivers outstanding performance in high-viscosity formulations. It also exerts favorable inhibiting and eliminating effects on bubbles generated during production and construction of radiation-curable systems and two-component epoxy systems.	100%
	LA DF 6800	This product is a high-efficiency organosilicon polymer defoamer developed for solvent-based and solvent-free systems. Excellent defoaming performance can be achieved with extremely low dosage. It is widely used in oil-based systems such as paints and solvent-borne coatings.	≥98%
	LA DF 6710	It is a polysiloxane compound containing hydrophobic particles. It is a foam inhibitor and defoamer suitable for high-solid, high-film-thickness epoxy floor coatings and screen printing inks.	≥98%
	LA DF 300	LA DF 300 is a silicone-free acrylate defoamer. It is used to improve the flow property of solvent-borne and solvent-free coatings. It delivers outstanding foam suppression, air release and defoaming effects, and is especially suitable for high-viscosity coating systems. Meanwhile, it boasts favorable compatibility and rarely causes cratering or precipitation in the system.	≥98%
	LA DF 057	This product is a silicone-free defoamer. It possesses extremely excellent compatibility. It is specially designed for unsaturated polyester systems, epoxy systems and other systems, and delivers outstanding defoaming and air release performance.	40%
Dispersant	LA SD 305G	an APEO-free ammonium block copolymer anionic dispersant (22% solids content), specifically engineered to solve high water resistance, anti-flash rust, anti-floating/-flooding, and lap mark elimination challenges in premium coatings.	22%
	LA SD 354G	Ta high-performance sodium polycarboxylate anionic dispersant (40% solids content), featuring high cost-efficiency, powerful viscosity reduction, excellent initial gloss, and strong color acceptance.	40%
	LA SD 110	This product is a dispersant solution containing acidic functional groups. It is suitable for various solvent-borne systems. Applicable systems include solvent-borne coatings, solvent-free coatings, solvent-borne printing inks and industrial coatings.	100%
	LA SD 111	This product is a dispersant solution containing acidic functional groups. It is suitable for various oil-based systems.	≥98%
	LA SD 760W	This dispersant is specially designed for water-based color pastes. It is used to disperse organic pigments and carbon black and applied in water-based systems. It delivers particularly excellent viscosity reduction performance and inhibits pigment flocculation to stabilize pigments. It has mature applications in the industries of water-based color pastes and water-based printing inks. It adopts the steric hindrance principle to prevent further flocculation of pigment particles. It performs well in dispersing inorganic pigments and carbon black with remarkable viscosity reduction effect, and improves the color development capacity of pigments.	90%
	LA DIS 20000	This is a high-molecular dispersant. It is widely used in solvent-borne coating and ink systems. It delivers extremely excellent grinding and dispersing performance for carbon black and organic pigments. Its performance stands out especially in alcohol-soluble surface gravure inks, alcohol-soluble reverse gravure inks, alcohol-ester soluble OPS inks, alcohol-soluble polyurethane inks, cigarette packaging inks, PVC shrink film inks, PVC screen printing inks, alcohol-soluble & alcohol-water mixed inks and color pastes, as well as PVC/PU/NC color concentrates for dispersing high-surface-area carbon black, and it boasts outstanding viscosity reduction performance.	≥98%
	LA XW 240	LA XW 240 is a polymeric high-molecular dispersant with 100% active content. It can significantly improve the dispersibility and storage stability of organic pigments and carbon black.	
	LA SD 27000	This is a polymeric hyperdispersant with pigment-affinic groups. It delivers favorable wetting performance, as well as excellent anti-settling, anti-flocculation, anti-floating and anti-flooding properties. Thanks to its high polarity, it is suitable for water-based coating and ink systems for the dispersion of organic pigments.	100%
Leveling agent	LA LEV 2201	It is polyether-modified polysiloxane.	> 97%
	LA LEV 2205	It is polyether-modified polysiloxane.	> 97%
Multifunctional Amine Neutralizer	LA AZ 95	This product is an amine-based multifunctional neutralizing agent. It is an organic compound primarily used as an emulsifier, acidic gas absorbent, acid-base control agent, and polyurethane foam catalyst. It is also used as an intermediate in the synthesis of antitumor drugs such as mechlorethamine hydrochloride.	95%

Thickener	LA PT 13E	This product is a polyurethane associative thickener, suitable for water-borne coatings, water-based adhesives, water-based inks, textile coatings, leather finishing and other applications.	40%±2
	LA PT 13B	This product is a polyurethane associative thickener, applicable to water-borne coatings, water-based adhesives, water-based inks, textile coatings, leather finishing and other fields.	40%±2、 50±2%

Silanes

Product Name	Chemical Name	Content	Advantages
LA-171	Vinyltrimethoxysilane	≥99%	Mainly used as a crosslinking agent for polyethylene; glass fiber surface treatment for fiberglass-reinforced plastics; synthesis of special coatings; surface moisture-proofing treatment for electronic components; surface treatment of inorganic silicon-containing fillers, etc.
LA-550	3-Aminopropyl-triethoxysilane	≥99%	Applied in mineral-filled thermoplastic and thermosetting resins. Significantly improves the flexural strength, compressive strength, shear strength, and wet electrical properties of the paint film, while enhancing the wettability and dispersibility of the filler in the polymer.
LA-560	3-Glycidyloxypropyl-trimethoxysilane	≥99%	Can be used in epoxy adhesives and sealants to improve adhesive properties, or to enhance the mechanical strength, water resistance, electrical properties, heat resistance, etc., of composite materials.
LA-570	3-(Methacryloyloxy)propyltrimethoxysilane	≥99%	Its polymers are widely used in coatings, adhesives, and sealants, providing excellent adhesion and durability. Also used to enhance composite material performance, glass fiber impregnation, surface treatment of inorganic fillers, etc.
LA-792	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	≥98%	Significantly improves the adhesion of coatings to coated surfaces, particularly effective for difficult-to-paint metals. Also an excellent glass fiber treatment agent and fabric finishing agent in the textile industry.

Polyamide Wax

Product Name	Type	Advantages
LA XW HST	Hydrogenated castor oil modified	Used in solvent-based coatings, inks, and adhesive systems to provide thixotropy, anti-sag properties, and anti-settling properties.
LA XW 70	Special modified polyamide wax powder	It has a wide activation temperature range and is easy to disperse and activate. Applied to solvent-based/solvent-free high solid content systems.
LA XW 90	Special modified polyamide wax powder	It is used in various solvent-based and high-solid systems, and is especially suitable for heavy-duty anti-corrosion systems such as epoxy and chlorinated rubber coatings to improve the thixotropic performance of the product and prevent sagging.
LA XW 46C	Acrylic-vinyl acetate emulsion	It is a special synthesis used in water-based coating systems and aluminum powder orientation.
LA XW 13	Water-based polyamide wax	It is a thixotropic paste made by pre-dispersion, expansion and activation. Enhancing aluminum powder orientation in water-based metallic paints.
LA XW 17	Water-based polyamide wax	It needs to be pre-dispersed, expanded and activated. It has good solvent resistance and helps the orientation of silver powder.
LA XW 38	Water-based polyamide wax	It needs to be pre-dispersed, expanded and activated. It has good dispersibility and can be used in both water-soluble and emulsion systems to help orient silver powder.
LA XW 39	Water-based polyamide wax	It needs to be pre-dispersed, expanded and activated to prevent sagging and settling, and help orient aluminum powder and metallic pigments.
LA XW 39E	Water-based polyamide wax	It needs to be pre-dispersed, expanded and activated to prevent sagging and settling, and help orient aluminum powder and metallic pigments.

Phenolic epoxy resin product description

Product Name	Epoxy equivalent (g/eq)	Softening Point (°C)/ Dissolution Concentration GH/25 °C	Gardner	Characteristic	Appearance	Application scope
LA FQ 749	170-190	H-K	≤3	Standard phenol, Phenolic type	Colorless to light yellow transparent semi-solid, no visible impurities allowed	Heat-resistant adhesives, composites, high-temperature coatings, electronic laminates, civil engineering and epoxy vinyl inks.

Silicates

Product Name	SiO ₂	Mole Ratio	pH	Applications & Properties
LS-A48	19.0-21.0%	4.6-5.0	11	Used as a coating binder, water can be used as the solvent. The formed coating film can withstand heat up to 1000°C, while exhibiting excellent wear resistance, moisture resistance, weather resistance, and resistance to wet-dry cycling. Especially suitable for humid environments and water-resistant decorative coatings.
LS-N	28.5-30.5%	3.1-3.4	12	When an aqueous sodium silicate solution is coated on a metal surface, it forms a film of alkali metal silicate and SiO ₂ gel, protecting the metal from corrosion by external acids, alkalis, etc. Also used in binders, manufacturing refractory materials, producing soft leather, etc.
LS-M	25.8-28.5%	3.1-3.4	12	When an aqueous sodium silicate solution is coated on a metal surface, it forms a film of alkali metal silicate and SiO ₂ gel, protecting the metal from corrosion by external acids, alkalis, etc. Also used in binders, manufacturing refractory materials, producing soft leather, etc.

CELLULOSE ETHER SERIES

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Product Name	Positioning	Product Features
HEC (Hydroxyethyl Cellulose)	Rheology Modifier & Thickener	*Rapidly dissolves in both cold and hot water to form a transparent, viscous colloid solution. *Maintains stable performance within a pH range of 6.0–8.0 with excellent salt resistance. *Aqueous solution viscosity remains stable at temperatures up to 80°C. *Provides superior water retention effect, significantly extending the open time of materials. *High thickening efficiency with excellent thixotropic properties for smooth application. *Good compatibility with most water-based systems, additives, pigments, and fillers. *Forms a flexible and transparent protective film upon drying of the aqueous solution.
HEMC (Hydroxyethyl Methyl Cellulose)	Thermal Stability & Anti-Cracking	*Prevents mortars and putties from cracking, shrinking, or powdering caused by rapid moisture loss. *Provides excellent slurry suspension stability, preventing water separation (bleeding) and material segregation. *Enhances workability for smooth, effortless troweling and application with a seamless tactile feel. *Compatible with both cement-based and gypsum-based binder systems, exhibiting high alkali stability. *Dissolves quickly in cold water without requiring hot water, ensuring maximum operational convenience.
HPMC (Hydroxypropyl Methylcellulose)	Water Retention, Thickener & Workability	*Forms a uniform, flexible, and transparent protective film, effectively coating tablets and pills to seal out moisture and oxygen, thereby enhancing pharmaceutical storage stability. *Effectively regulates the viscosity of liquid pharmaceuticals and gels. Provides uniform dispersion without phase separation or precipitation, improving preparation homogeneity. *Serves as a drug matrix material to delay drug release rate, prolong therapeutic efficacy, and improve medication safety. *Acts as an effective tablet binder to improve granule compressibility and tablet hardness, preventing chipping, capping, and friability. *Dissolves rapidly in both cold and hot water to form a clear and transparent solution with strong compatibility across diverse active pharmaceutical ingredients (APIs) and excipients. *Mild, non-toxic, and non-irritating with stable physicochemical properties and high acid/alkali resistance, adaptable to various pharmaceutical manufacturing processes.

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