

Water-based Acrylic Ink Binder

Sinograce Chemical

www.sinogracechem.com



ACRYLIC EMULSION FOR WATER-BASED INK

PAPER
PRINTING INK



FABRIC SCREEN
PRINTING INK



PLASTIC FILM
PRINTING INK





About us

Quality first, Continuous innovation, Win-win cooperation,
Green and Environmental Protection

Sinograce Chemical is professional technical enterprise providing solutions of surface materials and manufacturing of raw materials. Composed of R&D center, Manufacture center, Quality control department, Market center and International trade department. We have been dedicating to research on paint/coating/ink/adhesive industries for over 15 years. We continually develop and supply high-quality products to manufactures and sellers of paint/coating/ink/ adhesive all over the world.





SINOGRACE Manufacturing Process



1. Raw Materials
Quality Standard



2. Raw Material
Preparation



3. Production
Process



4. Samples
Inspection



5. Quality
Control



6. Up To
Standard



7. Product
Warehouse



8. Load And
Transportation

Acrylic Ink Binder For Water-based Ink

Develop high-tech products and technical solutions. Become the most professional, high-quality, eco-friendly products manufacturer.

Water-based acrylic polymer emulsions are fully reacted acrylic polymers dispersed in water. It contains no residual free formaldehyde, eco-friendly. Now It's widely used as ink binder for the production of water-based flexo and gravure paper inks、PP/OPP/BOPP/PE/PET/PVC plastic printing ink、screen printing ink、overprint varnish、emulsion for pigment grinding,etc.

Acrylic Emulsion Polymer Advantages

- ❑ Excellent adhesion
- ❑ Good water resistance
- ❑ Good abrasion resistance
- ❑ Excellent colour development
- ❑ Excellent printability and transferability

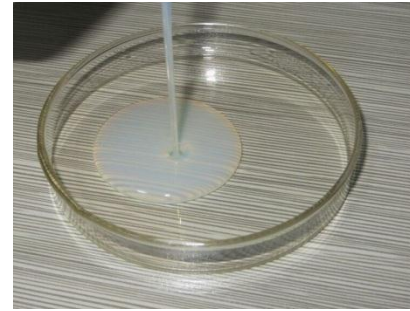


What We Can Offer For You?

Develop high-tech products and technical solutions. Become the most professional, high-quality, eco-friendly products manufacturer.

Product categories

- ❑ Acrylic Emulsion For Ink Binder
- ❑ Acrylic Emulsion For Pigment Grinding
- ❑ Auxiliary Chemicals
- ❑ Reference Formulation For Ink Production



All below is for your reference, we have our own R&D Center, professional chemists, devise your own product as your requirements, solve all your problems, technical support and formula will be obliged.

Acrylic Ink Binder For Paper Ink

Model NO.	TYPE	pH	Solid content	MFFT	Feature	Application
BA-8202	Acrylic polymer dispersion	7-9	48 ± 1%	22 °C	<ul style="list-style-type: none"> ❑ Good adhesion ❑ Excellent ink transfer and printability ❑ Excellent scrub resistance, water resistance 	<ul style="list-style-type: none"> ❑ Water-based paper ink ❑ Corrugated paper or cardboard ink ❑ Paper and cardboard coating ❑ Water-based flexo and gravure ink
BA-8204	Acrylic polymer dispersion	7-9	48 ± 1%	100 °C	<ul style="list-style-type: none"> ❑ Good adhesion ❑ Excellent ink transfer and printability ❑ Excellent scrub resistance, water resistance 	<ul style="list-style-type: none"> ❑ Water-based paper ink ❑ Water-based paper ink ❑ Corrugated paper or cardboard ink ❑ Paper and cardboard coating ❑ Water-based flexo and gravure ink



Acrylic Binder For Cigarette Packaging Ink

Model NO.	TYPE	pH	Solid content	MFFT	Feature	Application
BA-8202N	Acrylic polymer dispersion	7-9	48 ± 1%	22 °C	<ul style="list-style-type: none"> ❑ Ultra-low VOC ❑ Good film toughness, fast drying ❑ Good adhesion and scrub resistance ❑ Excellent ink transfer and printability 	<ul style="list-style-type: none"> ❑ Cigarette packaging ink ❑ Water-based paper ink ❑ Water-based flexo and gravure ink
BA-8204N	Acrylic polymer dispersion	7-9	48 ± 1%	100 °C	<ul style="list-style-type: none"> ❑ Ultra-low VOC ❑ Extremely fast drying ❑ Excellent scrub resistance, water resistance ❑ Excellent ink transfer and printability 	<ul style="list-style-type: none"> ❑ Cigarette packaging ink ❑ Water-based paper ink ❑ Water-based flexo and gravure ink



Acrylic Binder For PE/PP/OPP/BOPP Printing Ink

Model NO.	TYPE	pH	Solid content	Tg	Feature	Application
BA-8408	Acrylic Polymer Dispersion	7-9	40 ± 1%	-28 °C	<ul style="list-style-type: none"> ❑ Superior color development ❑ Excellent transferability and printability ❑ Excellent scrub resistance, water resistance ❑ Good adhesion on treated film substrate(PE、PP、OPP、BOPP) 	<ul style="list-style-type: none"> ❑ Water-based inks on treated PE/PP/OPP/BOPP ❑ Water-based surface and reverse printing ink
BA-8409	Acrylic Polymer Dispersion	7-9	40 ± 1%	30 °C	<ul style="list-style-type: none"> ❑ Good Leveling ❑ Excellent transferability and printability ❑ Excellent scrub resistance, water resistance ❑ Good adhesion on treated film substrate(PE、PP、OPP、BOPP) 	<ul style="list-style-type: none"> ❑ Water-based inks on treated PE/PP/OPP/BOPP ❑ Water-based surface and reverse printing ink
BA-8410	Acrylic Polymer Dispersion	7-9	40 ± 1%	90 °C	<ul style="list-style-type: none"> ❑ Good resistance to bond ❑ Excellent ink transfer and printability ❑ Excellent scrub resistance, water resistance ❑ Good adhesion on treated film substrate(PE、PP、OPP、BOPP) 	<ul style="list-style-type: none"> ❑ Water-based inks on treated PE/PP/OPP/BOPP ❑ Water-based surface and reverse printing ink



Acrylic Binder For PVC Printing Ink

Model NO.	TYPE	pH	Solid content	Viscosity (25°C)	Feature	Application
BA-8401	Modified acrylic copolymer	7-9	30 ± 1%	80cp	<ul style="list-style-type: none"> <input type="checkbox"/> Good adhesion <input type="checkbox"/> Excellent alcohol wiping resistance <input type="checkbox"/> Excellent transferability and printability <input type="checkbox"/> Excellent scrub resistance, water resistance 	<ul style="list-style-type: none"> <input type="checkbox"/> Water-based inks on PVC <input type="checkbox"/> Water-based flexo and gravure ink
BA-8404	Modified acrylic copolymer	7-9	30 ± 1%	100cp	<ul style="list-style-type: none"> <input type="checkbox"/> Good leveling <input type="checkbox"/> Excellent transferability and printability <input type="checkbox"/> Excellent scrub resistance, water resistance <input type="checkbox"/> Good adhesion on PVC, treated film substrate(PE、PP、OPP、BOPP) 	<ul style="list-style-type: none"> <input type="checkbox"/> Water-based inks on PVC <input type="checkbox"/> Water-based flexo and gravure ink
BA-8405	Modified acrylic copolymer	7-9	35 ± 1%	100cp	<ul style="list-style-type: none"> <input type="checkbox"/> Good leveling <input type="checkbox"/> Good resistance to bond <input type="checkbox"/> Excellent transferability and printability <input type="checkbox"/> Excellent scrub resistance, water resistance <input type="checkbox"/> Good adhesion on PVC, treated PET/PE/PP/OPP/BOPP, etc 	<ul style="list-style-type: none"> <input type="checkbox"/> Water-based inks on PVC <input type="checkbox"/> Water-based inks on treated PET/PE/PP/OPP/BOPP <input type="checkbox"/> Water-based flexo and gravure ink
BA-8406	Acrylic Polymer Dispersion	7-9	40 ± 1%	100cp	<ul style="list-style-type: none"> <input type="checkbox"/> Superior color development <input type="checkbox"/> Excellent transferability and printability <input type="checkbox"/> Excellent scrub resistance, water resistance <input type="checkbox"/> Good adhesion on PVC, treated PET/PE/PP/OPP/BOPP, etc 	<ul style="list-style-type: none"> <input type="checkbox"/> Water-based inks on PVC <input type="checkbox"/> Water-based flexo and gravure ink



PVC Banner

Acrylic Binder For PET Printing Ink

Model NO.	TYPE	pH	Solid content	Viscosity (25°C)	Feature	Application
BA-8407	Modified acrylic copolymer	7-9	30±1%	110°C	<ul style="list-style-type: none"> ❑ Good Leveling, fast drying ❑ Excellent transferability and printability ❑ Good removeable ability between coating base film (PET polyester film, OPP stretched polypropylene film, etc.) 	<ul style="list-style-type: none"> ❑ Water-based removable coating on untreated PET film
BA-8411	Modified acrylic copolymer	7-9	30±1%	30°C	<ul style="list-style-type: none"> ❑ Superior color development ❑ Excellent adhesion and scrub resistance ❑ Good adhesion on untreated PET film ❑ Excellent transferability and printability 	<ul style="list-style-type: none"> ❑ Top coating on untreated PET film ❑ Surface treatment agent untreated PET film
BA-8412	Modified acrylic copolymer	7-9	30±1%	90°C	<ul style="list-style-type: none"> ❑ Good adhesion and water resistance ❑ Good adhesion on untreated PET film ❑ Excellent transferability and printability ❑ Can be used for pigmeng grinding 	<ul style="list-style-type: none"> ❑ Top coating on untreated PET film
BA-8413	Modified acrylic copolymer	7-9	35±1%	--	<ul style="list-style-type: none"> ❑ Superior color development ❑ Excellent transferability and printability ❑ Excellent water-resistance, abrasion resistance, scratch resistance ❑ Good adhesion on aluminum-plated steel, treated PET/PE/PP/OPP/BOPP, etc 	<ul style="list-style-type: none"> ❑ Adhesive for Drug/Cosmetic/Food package ❑ Water-based flexo and gravure ink



Acrylic Binder For Screen Printing Ink


Model NO.c	TYPE	pH	Solid content	Tg	Feature	Application
BA-8311	Modified acrylic copolymer	7-9	45 ± 1%	-2°C	<ul style="list-style-type: none"> ☐ Excellent adhesion ☐ Non-toxic, eco-friendly ☐ High film forming ability ☐ Excellent abrasion resistance ☐ Excellent water resistance and alkali resistance 	<ul style="list-style-type: none"> ☐ For the preparation of water-based ink printing on all kinds of cotton, T/C, CVC, T/R, Acrylic, Spun, polyester and other knitted fabric and elastic fabric
BA-8312	Modified acrylic copolymer	7-9	35 ± 1%	15°C	<ul style="list-style-type: none"> ☐ Excellent adhesion ☐ Non-toxic, eco-friendly ☐ High film forming ability ☐ Excellent abrasion resistance ☐ Excellent water resistance and alkali resistance 	<ul style="list-style-type: none"> ☐ For the preparation of water-based ink printing on nylon knitted fabric and elastic fabric

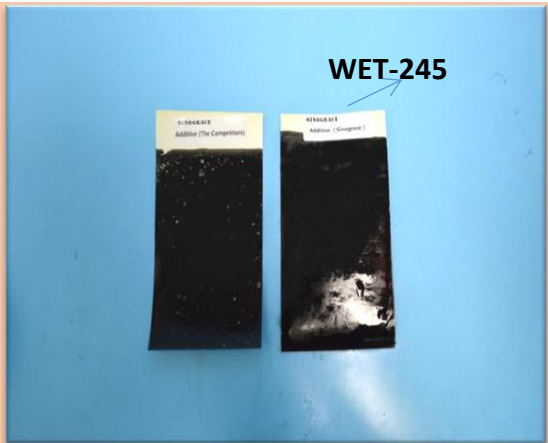


Acrylic Emulsion For Pigment Grinding

Model NO.	TYPE	pH	Solid content	Tg	Feature	Application
PA-8220	Modified Acrylic Copolymer	7-9	40 ± 1%	32 °C	<ul style="list-style-type: none"> ☐ Superior gloss ☐ Low VOC, eco-friendly ☐ Good leveling, less foam ☐ Good overprint performance ☐ Good grinding performance ☐ Good adhesion, water resistance, abrasion resistance 	<ul style="list-style-type: none"> ☐ Pigment grinding emulsion ☐ Water-based flexo and gravure ink
PA-8222	Modified Acrylic Copolymer	7-9	38 ± 1%	45 °C	<ul style="list-style-type: none"> ☐ Good adhesion on PVC substrate ☐ Superior color development ☐ Good grinding performance ☐ Good water resistance, abrasion resistance, anti-yellowing 	<ul style="list-style-type: none"> ☐ Pigment grinding emulsion ☐ Water-based PVC ink ☐ Adhesion promoter for PVC substrate ☐ Water-based flexo and gravure ink
PA-8223	Acrylic Polymer Dispersion	7-9	38 ± 1%	45 °C	<ul style="list-style-type: none"> ☐ Low VOC, eco-friendly ☐ Good leveling, less foam ☐ Good grinding performance ☐ Superior color development ☐ Good water resistance, abrasion resistance 	<ul style="list-style-type: none"> ☐ Pigment grinding emulsion ☐ Water-based flexo and gravure ink
PA-8224	Modified Acrylic Copolymer	7-9	38 ± 1%	45 °C	<ul style="list-style-type: none"> ☐ Excellent adhesion ☐ Good grinding performance ☐ Good leveling, less foam ☐ Excellent scrub resistance, water resistance, anti-yellowing 	<ul style="list-style-type: none"> ☐ Pigment grinding emulsion ☐ Water-based flexo and gravure ink

Auxiliary Chemicals

Defoamer	Model NO.	TYPE	Active Content	Dosgae	Descriptions
	DF-65	Silicone antifoam agent	50 ± 1%	0.05-0.1%	Silicone antifoam agent DF-65 is a silicone antifoam agent used to provide defoaming and improve leveling, wetting and slip properties. It is applicable for ink and coating system.
	DF-024	Polysiloxanes and hydrophobic solids in polyglycol	96 ± 1%	0.1~1%	DF-024 is silicone-containing defoamer. It is comparable with BYK 024. It has excellent defoaming performance and good compatibility with pigment and other emulsion.

Wetting Agent	Model NO.	TYPE	Active Content	Dosgae	Application Areas
	WET-245	Polyether siloxane copolymer	100%	0.1-1%	Printing Ink, Water-based paint/coating, lacquer coating, wood coating, plastic coating, etc
	WET-267	Organ-modified silicone	100%	0.1~1%	Printing inks, wood paint, plastic coating, industrial coating, etc

Reference Formulation For Ink Production



Reference Formulation Of Water-based Paper Ink

Water	160kg
Defoamer	2kg
Wetting dispersant agent	5kg
Wax emulsion	30kg
BA-8202 & BA-8204	600kg
Alcohol	203kg
Total	1000kg



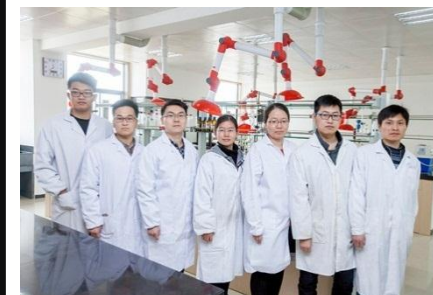
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for your reference !

- Products TDS
- Certificate of Analysis
- Material Safety Data Sheet
- Free Samples for Testing
- Product Application and Improvement
- Finished products reference formulation



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