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Acrylic emulsion polymer

Acrylic emulsion polymer are now being widely used in the **paint&coatings, ink, textile and adhesives industries**, and are finding their way into other high performance niche applications every day. Waterborne acrylic polymers can be selected to deliver **high tensile strength, chemical resistance, high elongation, UV resistance, low temperature flexibility, water resistance, abrasion resistance, and/or impact resistance**. Most acrylic polymers can be crosslinked in a variety of ways to enhance these properties even further. These properties can be obtained with exceptionally low VOC's to meet increasingly stringent clean air legislation.



Acrylic emulsion polymer



Model	SA-108	SA-205	SA-206	SA-207	SA-210	SA-212	SA-400	SA-225	SA-305	SA-214	SA-215	SA-216	SA-218	SA-220
Type	Styrene Acrylic Emulsion													
Solid content	47±1%	45±1%	48±1%	48±1%	48±1%	46±1%	48±1%	55±1%	55±1%	48±1%	45±1%	48±1%	48±1%	48±1%
Tg	35℃	12℃	20℃	18℃	30℃	30℃	-8℃	-45℃	30℃	12℃	42℃	-18℃	20℃	100℃
pH	7-9	7-9	7-9	7-9	7-9	7-9	7-9	7-8	7-9	8-9	8-9	8-9	8-9	7.5-8.5

SA-108

Descriptions

High gloss, excellent stain resistance, weatherability, anti-UV and water resistance.

- Top coatings/varnish
- Stone paint/coatings
- High weatherability exterior wall coatings

SA-205

Descriptions

It is used for building primer coatings with excellent alkali resistance, salty resistant, adhesive force and water resistant.

- Exterior wall primer coatings

SA-206

Descriptions

Small particle size, acrylic polymer latex that lends itself to a broad spectrum of paint formulations, resulting in coatings with excellent long-term durability. It has excellent calcium ion stability, dilution stability, mechanical stability and freeze-thawing stability.

- Exterior and interior wall coatings

SA-207

Descriptions

Special styrene acrylic emulsion developed by imported special auxiliaries and functional monomers. It is designed to solve the concrete alkali problem. It has excellent alkali resistance and adhesive force.

- Primer coatings



Anti-yellowing test

SA-210

Descriptions

It is normally used for interior and exterior paint. It could formulate high PVC latex paint. It has superior alkali resistance, calcium ion stability, dilution stability and freeze-thaw stability.

- Exterior and interior wall coatings

SA-212

Descriptions

It has good film-forming performance and strong adhesive force. It can solve the problem of stone-like coating water blushing.

- Real stone paint&coatings

SA-400

Descriptions

Used in adhesives for ceramic tile coverings. Also used for flexible, hydraulic bedding mortars, for flexible, waterproof, two-component cement-bonding mortars and for flexible waterproofing slurries.

- Basecoats
- High-flexibility tile adhesives
- Rigid and flexible waterproofing slurries for sealing in conjunction with tiles and protective surface coatings
- Anticorrosion protection
- Additive for hydraulic binder systems
- Roof coverings

SA-225

Descriptions

High adhesive force acrylic emulsion is designed for fiberglass glue. Improve the adhesion between the glass fiber grid cloth and wall body. Good transparency, fast drying speed, excellent anti stripping performance.

- Fiberglass binder/glue
- Fiberglass grid cloth glue
- Plastic binder/adhesive

SA-305

Descriptions

Fluorocarbon emulsion is produced by organofluorine, methacrylate and special monomers. It has excellent water resistant, outstanding weatherability and durability.

- High grade exterior wall paint
- Stone varnish/top coating



Water resistant test (Dipping for 7 days)

SA-214

Descriptions

It is designed for HDPE and aluminum foil printing ink. It exhibits good transparency, superior gloss and printability.

- Water-based ink
- HDPE and aluminum foil ink

SA-215

Descriptions

It is VOC free emulsion designed for food package ink. It has excellent wet and dry block resistance. Maximum wet/dry block resistance is obtained when using this emulsion in ink and overprint formulations. In addition, it also provides gloss, printability and rub resistance to formulations.

- Water-based ink
- Overprint varnishes
- Food packaging ink

SA-216

Descriptions

Soft film forming acrylic emulsion polymer that provides high gloss, good early water resistance, adhesion in inks for paper, treated polyolefin films (PP/PE/OPP/PVC/PET).

- Water-based ink
- Flexo printing ink
- Overprint varnishes
- PP/PE/OPP/PVC/PET coatings

SA-218

Descriptions

Water-based acrylic emulsion that improves transfer and hiding power for flexographic and gravure ink over porous paper and corrugated substrates. Hard non-film forming properties.

- Water-based paper ink
- Food packing printing ink

SA-220

Descriptions

Water-based acrylic emulsion that improves transfer and hiding power for flexographic and gravure ink over porous paper and corrugated substrates. Hard non-film forming properties.

- Water-based paper ink
- Glossy flexo and gravure inks
- Water based overprint varnishes

Water based polyurethane

Water Based Polyurethanes Dispersions(PUD) are one of the most growing segment for the surface coating industry due to their technological advances, that has made them an effective substitutes for the solvent based analogs. Due to have very low VOC and Formaldehyde-free, PUD are used in **wood paint, textile coating, glass coating, metal coating , adhesive and other commercial applications.**



Water Based Polyurethane



Model	PU-105	PU-108	PU-203	PU-205	PU-402	PU-403	PU-404	PU-206	PU-401	PU-201	PU-106	PU-107
Type	Aliphatic polyurethane							Aromatic polyurethane				Water based 2K polyurethane
Solid content	30±1%	38±1%	40±1%	45±1%	60±1%	40±1%	40±1%	40±1%	40±1%	40±1%	30±1%	40±1%
pH	7-8	7-8	7-9	7-9	7.5-9	7.5-9	7.5-9	7-8.5	7-8	7-9	3-5	7-8

PU-105

Descriptions

Formulated with state-of-the-art resins, this clear finish is non-yellowing and perfect for use over light or natural wood colors. It dries quickly and can be recoated in only two hours. This extremely durable finish resists abrasion, alcohol, water and virtually all household chemicals. This product has superior hardness and adhesion.

- Interior bare and stained wood surfaces and furniture

PU-106

Descriptions

It is designed for wood primer. It is designed specifically for use on interior and exterior new and unpainted hard and soft wood before applying a paint topcoat.

- Wood primer

PU-107

Descriptions

Water based 2K polyurethane systems are a new technology which is already successfully used in many applications also for wood coatings and more specifically furniture finishes, without having to sacrifice quality.

- Wood topcoat
- Furniture coating

PU-203

Descriptions

It is composed of polycarbonate structure. It is developed high hardness, high gloss, abrasion resistance, water resistant and excellent salt-fog resistance.

- Metal topcoat

PU-108

Descriptions

Aliphatic polyurethane dispersion is designed for wood paint. It is used for protecting hardwood floors and other wood surfaces. It is fast drying and flows&levels exceptionally well on any wood surface. It dries clear and is nonyellowing to ensure the true natural color of wood.

- Wood paint
- Varnish

PU-201

Descriptions

Water based polyurethane is suitable to be used as metal primer. It has strong adhesion force with base material, good color developing and salt-fog resistance.

- Metal primer



Anti-scratch test

PU-205

Descriptions

The peelable coating is designed using water based polyurethane that can be applied to smooth, non-porous surfaces and simply peeled off once dry. All peelable coatings may be applied with water compatible airless sprayers or automatic spray systems to protect surfaces from minor nicks, scratches, abrasions, and any other unwanted contaminants during transit or in completion or assembly during manufacturing.

- Metal
- Automobile
- Ceramic
- Plastic

PU-403

Descriptions

It is a kind of soft economical co-solvent free polyurethane for a variety of textile or flexible substrate applications.

- Textile coating
- Leather finishes
- Laminating adhesive

PU-401

Descriptions

Water based polyurethane is designed for adhesive and textile applications. It is very soft with high elongation, good hydrolysis-resistance and good abrasion resistant.

- Textile coating
- Textile binder
- Safety gloves coating



High elasticity

PU-402

Descriptions

High solid water based polyurethane dispersion (PUD), universal binder, soft and silky film with low gloss.

- Textile coating
- Leather basecoat
- Leather finishes
- Laminating binder
- Pigment printing

PU-206

Descriptions

The peelable coating is designed using water based polyurethane that can be applied to smooth, non-porous surfaces and simply peeled off once dry. All peelable coatings may be applied with water compatible airless sprayers or automatic spray systems to protect surfaces from minor nicks, scratches, abrasions, and any other unwanted contaminants during transit or in completion or assembly during manufacturing.

- Metal
- Ceramic
- Plastic

PU-404

Descriptions

High gloss water based polyurethane dispersion is synthesized by polycarbonate polyol. It has high gloss, good weatherability and aging-resistance.

- Textile coating
- Leather topcoat
- Laminating adhesive



Super hydrophobic nanocoating



Super hydrophobic nanocoating

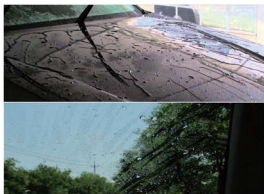


Superhydrophobic nano coatings are spray on surfaces to protect glass, textile, ceramic, painted, metal, fabric, wood and building surfaces with giving oleophobic, water/stain repellent and superhydrophobic features. Their main benefits are water repellency, oleophobic coating, stain repellency, scratch resistance and water proofing.

1.TEXTILE



2.CAR/GLASS



3.BUILDING



4.WOOD



Super hydrophobic nano coating introduction



Super hydrophobic nano coating for glass



9H nano coating for car body



Non-stick coating

Sinograce Chemical has been dedicating to research on non-stick coating for over 15 years. And now still continually developing and supplying high-quality products to manufactures and sellers of non-stick coatings all over the world.



Non-stick coating



1. Water based fluororesin non-stick coating

Water based fluororesin non-stick coating is designed with single-layer or two-layer coating system. Thanks to its high density, good inadhesion, easy-to-clean performance, outstanding price-performance ratio and strong practicability, this series coating is applicable for substrates like aluminum, alloy and stainless steel etc., thus being the most extensively used non-stick coating product.

Model	Layer	Thickness(μm)	Curing temperature(C)	Non stick property	Anti-corrosion	Abrasion resistant
PF-600	2	25-40	380-400	AAAAA	AAAA	AAA
PF-601	2	20-35	380-400	AAAA	AAAA	AAA
PF-602	2	25-40	380-400	AAAAA	AAAA	AAA

Note: One-A to five-A represents the grade from low to high.

2. Water based ceramic non-stick coating

Ceramic coatings is recognized as an incomparable fashion leader in the field of non-stick coating thanks to its high hardness, plump luster, wonderful colors, eco-friendly and PFOA free. Low-temperature sintering makes it suitable for diversified production areas.

Model	Layer	Thickness(μm)	Curing temperature(C)	Non stick property	Anti-corrosion	Abrasion resistant
C-105	1	30-40	280-300	AAAAA	AAAA	AAAAA
C-106	2	35-50	280-300	AAAAA	AAAA	AAAAA
C-107*	1	12-20	250-280	AAAAA	AAAA	AAAAA

*: Resistant to 800 C



3.Silicone resin non-stick coating

Silicone resin coatings offers diversely colored high-gloss coating with wonderful tint and plump luster. Thanks to the excellent resistance to soiling and easy-to-clean performance, it's applicable for internal coating of baking utensils in many application areas.

Model	Layer	Thickness(μm)	Curing temperature(C)	Non stick property	Anti-corrosion	Abrasion resistant
S-200	1	20-30	280-300	AAAA	AAAAA	AAAA
S-201	1	20-30	280-300	AAAA	AAAAA	AAAAA

4.Non-stick coatings performance test

(1) Heat resistant



(2) Non-stick



(3) Abrasion resistant



Additives

Although used in very small quantities, additives can have a huge impact on paint/coating performance and application properties. Our additives for coatings and paint include **wetting agents, slip agent, thickener, defoamer etc.**



Additives

Wetting agents

Model	Type	Active content	Wetting effect	Anti-crater effect	Flow promotion	Low foam	Dosage
WET-245	Polyether siloxane copolymer	100%	AAAAA	AAAA	AAA	A	0.1-1%
WET-267	Organo-modified silicone	100%	AAAAA	AAAA	AAA	AA	0.1-1%
WET-270	Modified polyether siloxane	100%	AAAAA	AAAAA	AAAA	AAA	0.1-1%

WET-270

Application area

- Water based coatings
- Solvent based coatings
- Radiation curing coatings
- Lacquer coatings etc.

WET-267

Application area

- Printing inks
- Wood paint
- Plastic coating
- Industrial coatings etc.

WET-245

Application area

- Waterborne paint/coating
- Solventborne paint/coating
- Wood paint
- Plastic coating
- Lacquer coating
- Printing ink etc.



0.15% additive



No additive

Thickener

Model	Type	Solid content	Dosage	pH	Descriptions
TH-935	Anionic associative thickener	30±1%	0.2-3%	2.5-3	It is a hydrophobically modified anionic thickener, designed to give medium shear rate viscosity interior/exterior flat latex paints.
TH-40	Polyurethane pseudoplastic rheology modifier	40±1%	0.2-2%	6.5-7	TH-40 thickens and stabilizes viscosity by forming a network between polyurethane, binder molecules and pigment particles.
TH-60	Anionic inverse polyacrylate emulsion	60±1%	0.5-3%	6-8	It is developed for thickening pigment printing on cotton as well as synthetic textiles. Very quick thickening effect and high electrolyte stability in pigment printing system.

TH-935

Application area

- Interior/exterior flat latex paints
- Building coatings
- Textile coating

TH-60

Application area

- Pigment printing
- Textile printing etc.

TH-40

Application area

- Interior and exterior paints
- Latex paints
- Anti-corrosive paints
- Emulsion plasters
- Pigment printing
- Adhesives and joint fillers etc.



No additive:
258 cP

0.8% additive (Ours):
5037 cP

0.8% additive (Competitor's):
2229 cP



0.2% additive



No additive

Slip Agent

Model	Type	Active content	Dosage	Descriptions
SL-333	Polyether modified polydimethylsiloxane	100%	0.1-1%	SL-333 is a polyether modified polydimethylsiloxane. It strongly increases surface slip and greatly improves substrate wetting. It can be used universally in all coatings systems. In aqueous systems, it also increases anti-blocking properties.
SL-482	High molecular weight polydimethylsiloxane	65%	0.1-1%	It is a slip and anti-blocking additive with utmost effectiveness. It has excellent slip and anti-blocking properties in topcoat, pigmented and waterborne systems.

SL-333

Application area

- Water based paint/coatings
- Vanish/clear coat
- Wood coating
- Printing ink
- Solvent based coatings etc.

SL-482

Application area

- Water based paint/coating
- Wood paint
- Vanish/clear coat
- Leather coating
- Printing ink etc.

Defoamer

Model	Type	Active content	Dosage	Descriptions
DF-65	Silicone antifoam agent	50 ± 1%	0.05-0.1%	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.
DF-222	hydrocarbons and non-ionic surfactants	99%	0.2-1%	It is a liquid defoamer for emulsion paints and adhesive systems. Used for emulsion paints/coatings based on acrylic, styrene-butadiene, polyvinyl chloride and its copolymers, ethylene-vinyl acetate, vinylidene chloride and water-soluble alkyds.
DF-825	Polyether siloxane copolymer	25 ± 1%	0.1-1%	It is an effective defoamer with high compatibility. It is a white, thixotropic liquid emulsion of a polyether siloxane copolymer. It has strong defoaming characteristics for clear coat, pigmented and waterborne systems as well as for polyurethane-acrylate binders.

DF-65

Application area

- Water based ink
- Water based coatings
- Wood coatings
- Solvent based coatings
- 2-pack epoxy system etc.

DF-024

Application area

- Printing inks and overprint varnishes
- Automotive coatings
- Emulsion adhesives
- Industrial coatings etc.

DF-222

Application area

- Emulsion paint/coating
- Water based adhesive system etc.

DF-825

Application area

- Water based paint/coating
- Industrial coating
- Wood paint
- Vanish/clear coat
- Leather coating
- Printing ink etc.



No additive

0.2% additive (Ours)

0.2% additive
(Competitor's)



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