



RESIN POLYMER

ZARIFMOSAVAR



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ABOUT US

Resinpolymer is one of ZarifMosavar subsidiaries with more than two decades of experience in oil and resin manufacturing.

Our technical experts design specific water base emulsions for a wide range of applications.

Our products include vinyl acetate homopolymers, styrene-acrylic copolymers, vinyl-acrylic copolymers, pure acrylic copolymers, XSBR latex, spin finish oils & textile softeners.





PVAc Homopolymer

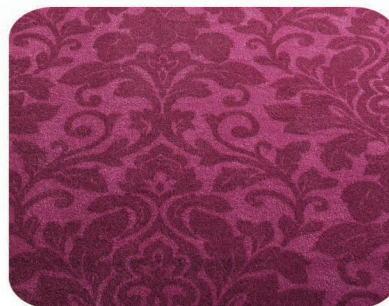
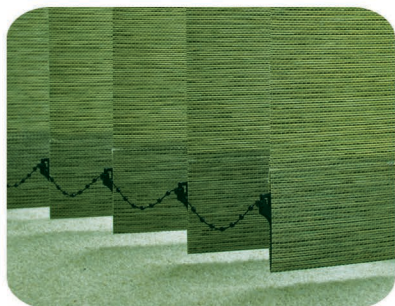
Poly vinyl acetate (PVAc, poly(ethenyl ethanoate): commonly referred to as wood glue, white glue, carpenter's glue, school glue, or PVA glue) is an aliphatic rubbery synthetic polymer with the formula $(C_4H_6O_2)_n$. It belongs to the polyvinyl esters family with the general formula $-[RCOOCHCH_2]-$. It is a type of thermoplastics.

As an emulsion in water, PVAc emulsions are used as a good adhesive for porous materials, particularly for wood, paper and cloth. The stiff homopolymer PVAc, can be used as base resin in paint and other coatings, as binder in nonwovens , glass fibers , filter paper and textile finishing.

Applications:

- Wood glue (PVAc is known as "white glue" and the yellow as "carpenter's glue".)
- Lower drape sizing
- Paper adhesive during paper packaging conversion
- Wall to wall carpet sizing
- Adhesive in bookbinding and book arts, due to its flexible strong bond and non-acidic nature (unlike many other polymers)
- Wallpaper adhesive
- Sizing in shoe insole board manufacturing
- Primer for drywall and other substrates

Homopolymer Resin	Code	Appearance	Tg (°C)	Solid Content (%)	Viscosity (Poise) @20°C	PH	MMFT	Container : Barrel (200Kg)	Chemical Composition
	RP 401	White paste	25	40±1	800 - 1000	5-7	15	*	PVAc homopolymer
	RP 501 L	White emulsion	25	50±1	1 - 10	4-5	15	*	PVAc homopolymer
	RP 501	White paste	25	50±1	700 - 1000	4-5	15	*	PVAc homopolymer
	RP 502	White paste	0	50±1	700 - 1000	4-5	0 <	*	PVAc homopolymer
	RP 503	White emulsion	0	50±1	20 - 100	4-5	0 <	*	PVAc homopolymer



Copolymer

Acrylates Copolymer is a general term for copolymers of two or more monomers consisting of acrylic acid, methacrylic acid or one of their simple esters. Acrylic copolymer emulsion can be used for formulating premium quality decorative paints for interior application. It imparts excellent gloss, flow and leveling properties besides other improved properties such as excellent colour retention, alkali & UV resistance .

Styrene Acrylic Copolymer Emulsion is a water-based dispersion emulsion of styrene acrylic copolymer. Styrene acrylic copolymer family have mixed benefits of styrenics with the optical quality of acrylates.

These kinds of copolymer can be used as :

- Concrete & tile adhesive
- Cellophane glue
- White roof coating
- Acrylic paint
- Paper sizing

Vinyl Acrylic Copolymer Emulsion is a colloid stabilized water based copolymer emulsion of vinyl acetate-acrylic copolymer. This product can deliver , great holding power, and high inter molecular strength. It can be used in manufacturing exterior and interior semi gloss/flat paints.

These kinds of copolymer can be used as :

- Semi-plastic and plastic paint
- Soft texture sizing
- Carpet back coating

	Code	Appearance	Tg (°C)	Solid Content (%)	viscosity (Poise) @20°C	PH	MM FT	Container Barrel (200Kg)	Chemical Composition
Copolymer Resin	RP 5030	White emulsion	14	50±1	20-50	4-5	8	*	vinyl acrylic made by 3 monomers
	RP 5020	White emulsion	5	50±1	20-40	4-5	0	*	vinyl acrylic made by 2 monomers
	RP 5033	Bluish white emulsion	13	50±1	30-80	7-9	13<	*	styrene acrylic
	RP 5023	Bluish white emulsion	0>	50±1	30-80	7-9	0	*	styrene acrylic
	RP T30	Bluish white emulsion	----	29±1	1-2	2-3	----	*	Pure acrylic
	RP V40	Bluish white emulsion	0	39±1	1-3	5.5-6.5	0>	*	vinyl acrylic self-crosslinking



Pure acrylic

Pure acrylic resins are a group of related thermoplastic or thermosetting plastic substances derived from acrylic acid, methacrylic acid or other acrylic monomers. Pure acrylic resin used in an emulsified form for manufacturing lacquer, textile finishes, adhesives etc.,

This kind of product can be used as :

- Lable and tape(BOPP) adhesive
- Ineffective adhesive
- Cellophane glue
- Acrylic paint
- Soft and hard texture sizing
- Curtain sizing



	Code	Appearance	Tg(°C)	Solid Content (%)	Viscosity(Poise) @20°C	PH	MMFT	Container : Barrel (200Kg)	Chemical Composition
Pure Acrylic Resin	RP 55	White emulsion	-32	55±1	3 - 8	4-6	-----	*	Pure acrylic
	RP 55N	White emulsion	-40	55±1	3.5 - 7.5	6-8	----	*	Pure acrylic
	RPF01	White emulsion	-30	50±1	5 -15	2-3	----	*	Pure acrylic
	RPH60	White emulsion	-40	55 ± 1	2 - 3	2-3	---	*	Pure acrylic
	RP4501	Bluish white emulsion	38	45±1	2 - 8	2-4	35	*	Pure acrylic Self -crosslinking
	RP4502	Bluish white emulsion	5	45±1	2 - 8	2-4	2	*	Pure acrylic Self -crosslinking
	RPC450	Bluish white emulsion	0	45±1	1.5 - 3.5	6-8	0>	*	Pure acrylic

XSBR Latex

RPX is an aqueous dispersion of a carboxylated styrene-butadiene copolymer. Styrene-butadiene carboxylated latex are among the most worldwide used elastomers, employed in a large variety of applications which significantly contribute to our standards of living.

RPX is used as a stiffener for conventional coating and designed for non- woven fabric impregnation and coating such as automotive products, needle punch carpets. This kind of latex has good adhesion to most surfaces, high degree of stiffness, excellent water resistance and high durability.

	Code	Appearance	Tg (°C)	Solid Content (%)	Viscosity (Poise) @20°C	PH	Density at 25°C (gr/cm3)	Container	Chemical Composition
XSBR Latex	RPX 25	White emulsion	25	50±1	2 - 3	7 - 8	1.01	Barrel /IBC	Carboxylated Styrene Butadiene Rubber Emulsion
	RPX 48	White emulsion	48	50±1	1 - 3	7 - 8	1.01	Barrel /IBC	Carboxylated Styrene Butadiene Rubber Emulsion
	RPX 55	White emulsion	55	50±1	1 - 3	7-8	1.01	Barrel /IBC	Carboxylated Styrene Butadiene Rubber Emulsion





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Spin Finish Oil

Spin Finish Oil	Code	Appearance	Density (gr/cm ³)	PH ~ (5% solution)	Active substance (%)	Chemical composition	Dilution	Solubility in water	Application
	SF3221	Reddish liquid	1.01	7	70%	Non-ionic emulsion	10% in water	soluble	Carding and spin finish oil for PET and PP fibre
	SF3121	Reddish liquid	1.01	7	70%	Non-ionic emulsion	10% in water	soluble	Carding and spin finish oil for PET and PP fibre
	SFPO1	Clear liquid	1.06	7	80%	Non-ionic emulsion	-	soluble	Spin finish oil for POY fibre
	SFS202	Yellowish wax	-	7	8%	Cationic Solid wax	14% in 70°C water	soluble	Spin finish oil for Softening recycled PET fibre
	SFB4521	Clear liquid	1.01	7	60-70%	Non-ionic emulsion	100% in water	soluble	Spin finish oil for PET, PP, PA* fibre
	SFA1050	Clear liquid	1.01	7	50-60%	Non-ionic emulsion	5% in water	soluble	Anti static oil for PET & PP fiber
	SF4321	Yellowish lucid liquid	1.01	7	60-70%	Non-ionic emulsion	10% in water	soluble	Carding and spin finish oil for PET and PP fibre
	SF4121	Yellowish lucid liquid	1.01	7	60-70%	Non-ionic emulsion	10% in water	soluble	Carding and spin finish oil for PET and PP fibre
	SF4221	Yellowish lucid liquid	1.01	7	50-60%	Non-ionic emulsion	10% in water	soluble	Carding and spin finish oil for PET and PP fibre

*Poly Amide

Spin finishes are the lubricants which provide surface lubricating, plasticizing and static protection to man-made fibers. They are applied in fluid condition just before wind up.

Applications of spin finishes:

- To lubricate yarn.
- To reduce static electricity.
- To increase cohesion of the yarn.

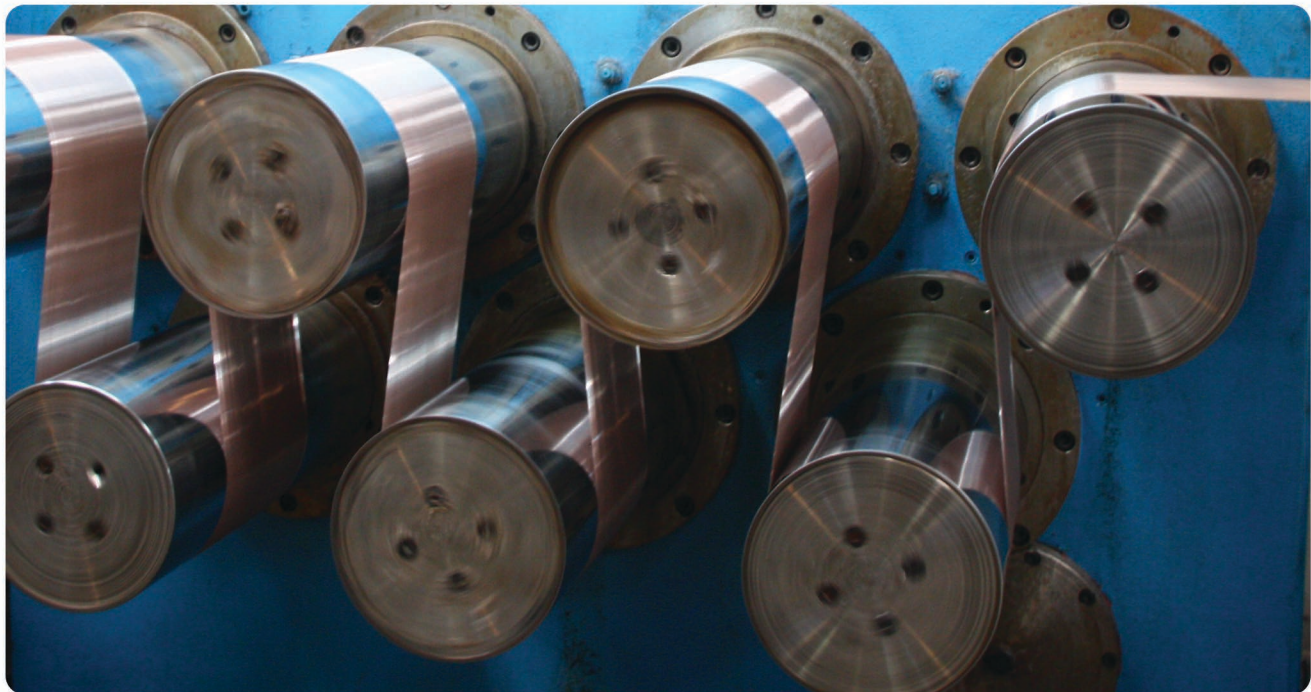


Different types of spin finishes:

- Lubricants: Used to control the friction of the fiber. Example: Oils, poly glycols.
- Plasticizers: Used to make the fiber more flexible by reducing the Tg value and also reduce the brittleness. Example: silicate, dibutyl.
- Anti static agent: Used to reduce the static charge of fiber. Example: Lithium chloride, Butyl stearate.

Properties of spin finishes:

- Providing cohesion of the filament
- No oxidation in the air
- Having good wetting properties
- Not encouraging bacterial growth
- Not being carcinogenic
- Having anti static properties





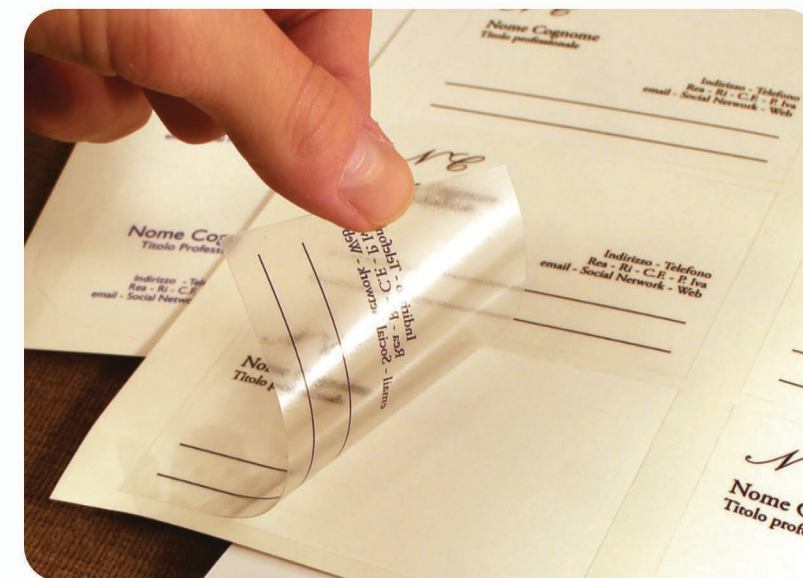
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Usage diversification table

Code		Homopolymer Resin					Copolymer Resin					Pure Acrylic Resin							
		RP 401	RP 501 L	RP 501	RP 502	RP 503	RP 5030	RP 5020	RP 5033	RP 5023	RPT 30	RPV 40	RP 55	RP 55N	RPF 01	RPH 60	RP 4501	RP 4502	RPC 450
Adhesive	Carton Packaging															*			
	Wood Adhesive	*	*	*	*	*		*											
	Tile Adhesive			*			*		*										
	Concrete Adhesive									*									
	Lable Adhesive												*	*					
	Tape Adhesive (BOPP)												*	*					
	Ineffective Adhesive														*	*			
	Cellophane Glue									*						*			*
	Laminate Adhesive				*	*	*	*				*							
Paint & Coating	White Roof Coating									*									
	Kinitex						*												
	Acrylic Paint								*	*								*	
	Plastic Paint				*														
	Semi-plastic Paint				*		*	*											
	Thickener										*								
	Printing Binder											*							
Sizing	Carpet Back Coating	*	*	*	*	*		*											
	Woven Sizing	*	*	*															
	Texture Hard Sizing	*	*	*													*		
	Texture Soft Sizing				*	*						*						*	
	Filter	*	*	*	*	*													
	Curtain		*	*			*										*		
	Paper								*										





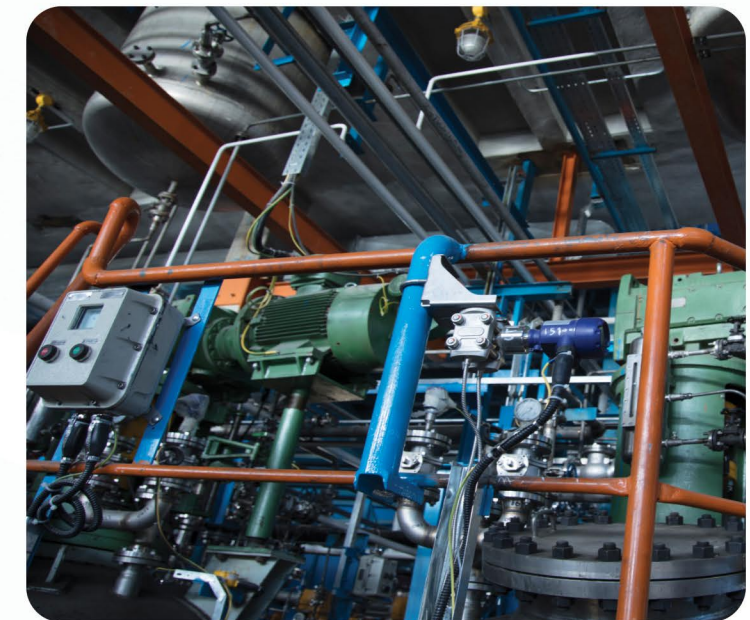
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Specification comprehensive table

Code		Homopolymer Resin					Copolymer Resin						Pure Acrylic Resin						
		RP 401	RP 501 L	RP 501	RP 502	RP 503	RP 5030	RP 5020	RP 5033	RP 5023	RPT 30	RPV 40	RP 55	RP 55N	RPF 01	RPH 60	RP 4501	RP 4502	RPC 450
Specification	Appearance	White paste	White emulsion	White paste	White paste	White emulsion	White emulsion	White emulsion	Bluish white emulsion	Bluish white emulsion	Bluish white emulsion	Bluish white emulsion	White emulsion	White emulsion	White emulsion	White emulsion	Bluish white emulsion	Bluish white emulsion	Bluish white emulsion
	Tg (°C)	25	25	25	0	0	14	5	13	0>	----	0	-32	-40	-30	-40	38	5	0
	Solid Content (%)	40±1	50±1	50±1	50±1	50±1	50±1	50±1	50±1	50±1	29±1	39±1	55±1	55±1	50±1	55±1	45±1	45±1	45±1
	Viscosity (Poise) @20°C	800 to 1000	1 to 10	700 to 1000	700 to 1000	20 to 100	20 to 50	20 to 40	30 to 80	30 to 80	1 to 2	1 to 3	3 to 8	3.5 to 7.5	5 to 15	2 to 3	2 to 8	2 to 8	1.5 to 3.5
	PH	5-7	4-5	4-5	4-5	4-5	4-5	4-5	7-9	7-9	2-3	5-6	4-6	6-8	2-3	2-3	2-4	2-4	6-8
	MMFT	15	15	15	0<	0<	8	0	<13	0	----	0>	----	----	----	---	35	2	0>
	Container : Barrel (200Kg)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Chemical Composition	PVAc homopolymer	PVAc homopolymer	PVAc homopolymer	PVAc homopolymer	PVAc homopolymer	vinyl acrylic made by 3 monomers	vinyl acrylic made by 2 monomers	styrene acrylic	styrene acrylic	Pure acrylic	vinyl acrylic	Pure acrylic	Pure acrylic	Pure acrylic	Pure acrylic	Pure acrylic	Pure acrylic	Pure acrylic





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