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ABOUT

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

Our technical experts design specific water based 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 (C4H6O2)n. It belongs to the polyvinyl esters family with the general formula -[RCOOCHCH2]-. It is a type of thermoplastics.

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



Code	Appearance	Solid Content (%)	Viscosity (Poise)	PH	MFFT	Container: Barrel (200Kg)	Chemical Composition
RP 401	White Paste	1 ± 40	1000 - 800	7 - 5	15	*	PVAc Homopolymer
RP 501 L	White Emulsion	1 ± 50	10 - 1	5 - 4	15	*	PVAc Homopolymer
RP 501	White Paste	1 ± 50	1000 - 700	5 - 4	15	*	PVAc Homopolymer
RP 502	White Paste	1 ± 50	1000 - 700	5 - 4	0 <	*	PVAc Homopolymer
RP 503	White Emulsion	1 ± 50	100 - 20	5 - 4	0 <	*	PVAc Homopolymer

COPOLYMER

Acrylate 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 's can be used as:

• Concrete & tile adhesive

• Cellophane glue

• White roof coating

• Acrylic paint

Paper sizing

Vinyl acrylic copolymer emulsion is a stabilized colloid water based copolymer emulsion of vinyl acetate-acrylic copolymer. This product would deliver , great holding power, and high inter molecular strength.

It would be used in manufacturing exterior and interior semi gloss/flat paints.



Code	Appearance	Solid Content (%)	Viscosity (Poise) @20 °C	РН	MFFT	Container: Barrel (200Kg)	Chemical Composition
RP 5030	White Emulsion	1 ± 50	50 - 20	5 - 4	8	*	Vinyl Acrylic Made by 3 Monomers
RP 5020	White Emulsion	1 ± 50	40 - 20	5 - 4	0	*	Vinyl Acrylic Made by 2 Monomers
RP 5033	Bluish White Emulsion	1 ± 50	80 - 30	9 - 7	13 <	*	Styrene Acrylic
RP 5023	Bluish White Emulsion	1 ± 50	80 - 30	9 - 7	0	*	Styrene Acrylic
RP T30	Bluish White Emulsion	1 ± 29	2 - 1	3 - 2	-	*	Pure Acrylic
RP V40	Bluish White Emulsion	1 ± 39	3 - 1	6.5 - 5.5	0 <	*	Vinyl Acrylic Self-Crosslinking

These kinds of copolymer 's can be used as:

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





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,.

These kinds of product 's can be used as:

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

Lable adhesive tape adhesive A Group of relate

A Group of related thermoplastuc or thermosetting plastic substances

Code	Appearance	Solid Content (%)	Viscosity (Poise) @20 °C	PH	MFFT	Container: Barrel (200Kg)	Chemical Composition
RP 55	White Emulsion	1 ± 55	8 - 3	6 - 4	-	*	Pure Acrylic
RP 55N	White Emulsion	1 ± 55	7.5 - 3.5	8 - 6	-	*	Pure Acrylic
RP F01	White Emulsion	1 ± 50	15 - 5	3 - 2	-	*	Pure Acrylic
RP H60	White Emulsion	1 ± 55	3 - 2	3 - 2	-	*	Pure Acrylic
RP 4501	Bluish White Emulsion	1 ± 45	8 - 2	4 - 2	35	*	Pure Acrylic Self-Crosslinking
RP 4502	Bluish White Emulsion	1 ± 45	8 - 2	4 - 2	2	*	Pure Acrylic Self-Crosslinking
RP C450	Bluish White Emulsion	1 ± 45	3.5 - 1.5	8 - 6	0 <	*	Pure Acrylic





RPX and RPN are aqueous dispersion of carboxylated styrene-butadiene copolymer. Styrenebutadiene 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	Solid Content (%)	Viscosity (Poise)	PH	Density @ 20 °C (gr / cm³)	Container	Chemical Composition
RPX 25		1 ± 50	3 - 2	8 - 7	1.01	Barrel / IBC	
RPX 48		1 ± 50	3 - 1	8 - 7	1.01	Barrel / IBC	Carboxylated
RPX 55	White Emulsion	1 ± 50	3 - 1	8 - 7	1.01	Barrel / IBC	Styrene Butadiene Rubber
RPX 10		1 ± 50	5 - 2	9 - 8	1.01	Barrel / IBC	Emulsion
RPX 15		1 ± 50	6 - 2	8 - 7	1.01	Barrel / IBC	



Code	Appearance	Solid Content (%)	Viscosity (Poise)	PH	Density @ 20 °C (gr / cm³)	Container	Chemical Composition
RPN 15		1 ± 50	4 - 2	8 - 7	1.01	Barrel / IBC	Carboxylated
RPN 25	White Emulsion	1 ± 50	4 - 2	8 - 7	1.01	Barrel / IBC	Styrene Butadiene Bubbar
RPN 5		1 ± 50	5 - 1	9 - 8	1.01	Barrel / IBC	Emulsion

SPIN FINISH OIL

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

Applications of spin finishes:

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

Code	Appearance	Density @ (gr / cm ³)	PH (%5 Solution)	Active Substance (%)	Chemical Composition	Dilution	Solubility in Water	Application
SFP01	Clear Liquid	1.06	7	%80	Non-Ionic Emulsion	-		Spin Finish Oil for POY Fiber
SFS202	Yellowish	-	7	%8	Cationic Solid Wax	%14 in 70 °C Water	Soluble	Spin Finish Oil for Recycled Softening PET Fiber
SFB4521	Clear Liquid	1.01	7	%70 - 60	Non-Ionic Emulsion	%100 in Water		Spin Finish Oil for PEt, PP, PA* Fiber



Different types of spin finishes:

• Lubricants: Used to control the friction of the fiber. For instance: Oils, poly glycols.

• Plasticizers: applide to make the fiber more flexible by reducing the Tg value and also reduce the brittleness. For 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

Code	Appearance	Density @ (gr / cm³)	PH (%5 Solution)	Active Substance (%)	Chemical Composition	Dilution	Solubility in Water	Application
SF3221	Reddish liquid	1.01	7	%70		%10 in Water		
SD3121	Reddish liquid	1.01	7	%70		%10 in Water		
SF4221	Yellowish Lucid Liquid	1.01	7	%60 - 50	Non-Ionic	%10 in Water		Carding and Spin Finish Oil for PET and PP Fiber
SD4321	Yellowish Lucid Liquid	1.01	7	%70 - 60	Emulsion	%10 in Water	Soluble	
SD4121	Yellowish Lucid Liquid	1.01	7	%60 - 50		%10 in Water		
SFA1050	Clear Liquid	1.01	7	%60 - 50		%10 in Water		Anti Static Oil for PET & PP Flber

USAGE DIVERSIFICATION TABLE

					Ad	lhesi	ve						Paint	& Co	ating	J				Ş	Sizing			
	Code	Carton Packaging	Wood Adhesive	Tile Adhesive	Concrete Adhesive	Lable Adhesive	Tape Adhesive (BOPP)	Ineffective Adhesive	Cellophane Glue	Laminate Adhesive	White Roof Coating	Kinitex	Acrylic Paint	Plastic Paint	Semi-Plastic Paint	Thickener	Printing Binder	Carpet Back Coating	Woven Sizing	Texture Hard Sizing	Texture Soft Sizing	Filter	Curtain	Paper
<u>ب</u>	RP 401		*															*	*	*		*		
yme	RP 501 L		*															*	*	*		*	*	
opol Resir	RP 501		*	*														*	*	*		*	*	
Hom	RP 502		*							*				*	*			*			*	*		
<u> </u>	RP 503		*							*								*			*	*		
	RP 5030			*						*		*			*								*	
<u> </u>	RP 5020		*							*					*			*						
.yme sin	RP 5033			*									*											*
opol Re	RP 5023				*				*		*		*											
0	RPT 30															*								
	RPV40									*							*				*			

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					A	dhesi	ve						Paint	& Co	oating	J					Sizing)		
	Code	Carton Packaging	Wood Adhesive	Tile Adhesive	Concrete Adhesive	Lable Adhesive	Tape Adhesive (BOPP)	Ineffective Adhesive	Cellophane Glue	Laminate Adhesive	White Roof Coating	Kinitex	Acrylic Paint	Plastic Paint	Semi-Plastic Paint	Thickener	Printing Binder	Carpet Back Coating	Woven Sizing	Texture Hard Sizing	Texture Soft Sizing	Filter	Curtain	Paper
	RP 55					*	*																	
	RP 55N					*	*																	
ylic	RPF 01							*																
e Acı Resir	RPH 60							*	*															
Pure	RP 4501																			*			*	
	RP 4502												*								*			
	RPC 450								*															
	RPX 25																			*				
	RPX 48																			*				
	RPX 55																			*				
	RPN 15													*	*						*			*
XSE Res	RPN 25																				*			
	RPX 10													*	*					*				*
	RPX 15													*	*									
	RPN 5				*																*		*	

SPECIFICATION COMPREHENSIVE TABLE

			Homo	polymer	Resin				Copolym	ner Resin		
	Code	RP 401	RP 501 L	RP 501	RP 502	RP 503	RP 5030	RP 5020	RP 5033	RP 5023	RPT 30	RPV 40
	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
	Tg (°C)	25	25	25	0	0	14	5	13	0>	-	0
_	Solid Content (%)	1 ± 40	1 ± 50	1 ± 50	1 ± 50	1 ± 50	1 ± 50	1 ± 50	1 ± 50	1 ± 50	1 ± 29	1 ± 39
cificatior	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
Sep	PH	75-	54-	54-	54-	54-	54-	54-	97-	97-	32-	65-
	MFFT	15	15	15	0 <	0 <	8	0	<13	0	-	0>
	Container: Barrel (200Kg)	*	*	*	*	*	*	*	*	*	*	*
	Chemical Composition		PVAc	Homopo	olymer		Vinyl Acrylic by 3 Monomers	Vinyl Acrylic by 2 Monomers	Styrene Acrilic	Styrene Acrilic	Pure Acrylic	Viny Acrilic



SPECIFICATION COMPREHENSIVE TABLE

		Pure	e Acrylic I	Resin						Pure Acr	ylic Resin			
RP 55	RP 55N	RPF 01	RPH 60	RP 4501	RP 4502	RPC 450	RPX 25	RPX 48	RPX 55	RPX 10	RPX 15	RPN 25	RPN 15	RPN 5
White Emulsion	White Emulsion	White Emulsion	White Emulsion	Bluish White Emulsion	Bluish White Emulsion	Bluish White Emulsion	White Emulsion							
32-	40-	30-	40-	38	5	0	25	48	55	10	15	25-	15-	5-
1 ±55	1 ±55	1 ±50	1 ±55	1 ±45	1 ±45	1 ±45	1 ±50	1 ±50	1 ±50	1 ±50	1 ±50	1 ±50	1 ±50	1 ±50
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	2 to 3	1 to 3	1 to 3	2 to 5	2 to 6	2 to 4	2 to 4	1 to 5
54-	86-	32-	32-	42-	42-	86-	87-	87-	87-	98-	87-	87-	87-	98-
-	-	-	-	35	2	0>	-	-	-	-	-	-	-	-
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		Ρι	ure Acry	lic			(Carboxyl	ated Sty	rene But	tadiene l	Rubber [Emulsior	ſ





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