ABWAB AL JAZEERA

Solvent Based Resins Catalog

ABWAB CORPORATION

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ABWAB Corporation is a chemical and petrochemical products supplier in the middle east region. Since its foundation the company has well established co-operation with some leaders of the industry and focused on some highly demanded areas such as Green Chemistry and Selective Catalytic Reduction Solutions as well as Painting industry products and solutions including but not limited to:

Water Based resins
Solvent based Resins
Alkyd Resins
Acrylic Resins
MMA Resins
Poly-enamels Resins
Polyurethan Resins
Saturated & Unsaturated Polyester Resins

Water Based Paints

Industrial paints
Constructional Paints
Wood Paints
Marine Paints
Epoxy floor coatings
Traffic Paints

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Solvent based Resins:

Solvent based resins can be categorized into different categories such as Alkyd Resins, different types of acrylic Resins, Epoxy Resins, Polyurethanes and Phenolic Resins.

The usage and application of the solvent resins can make a list of many different industries such as:

- Traffic, Automotive, Construction and Marine paints.
- Industrial & Decorative Laminates
- Printing inks and Packaging
- Electrical Insulation – Wire Enamels
- Structural Composites
- Adhesives

In this Catalog we are focusing on different Solvent based Resins which is supplied by ABWAB CORPORATION along with their applications and technical data.

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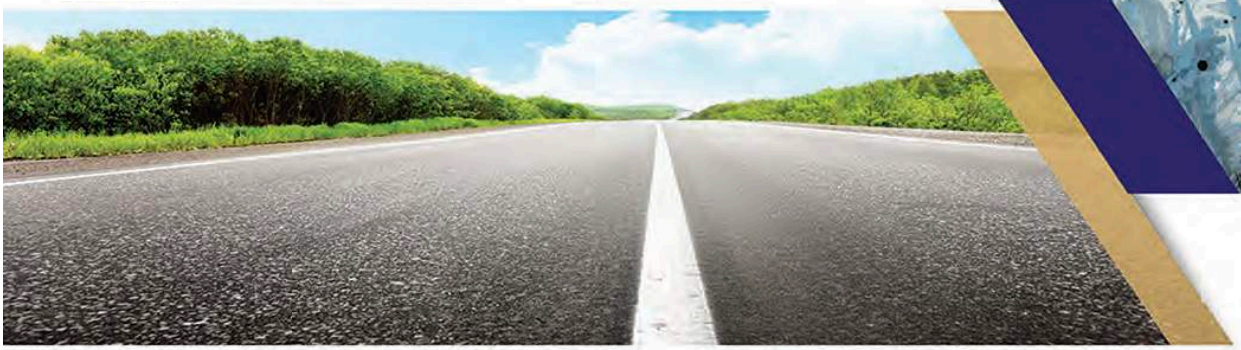
Thermoplastic Acrylic Resin
POLYACRYL, AC-340 AR60



Product Description:

This product is a copolymer of acrylic acid and acrylic and methacrylic acid esters.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Appearance	Viscous Liquid	---	------
Color	colorless /yellow	---	------
Solid content	60± 1	%	ISO-3251
Acid value	7-11	Mg KOH/g solid	ISO 2114
Viscosity (D6/25°C/50 % AR)	55-90	Sec	ISO-2431

Application:

This product is recommended for production of traffic paints (mild and cold climates), facades paints and pool paints.

Solubility

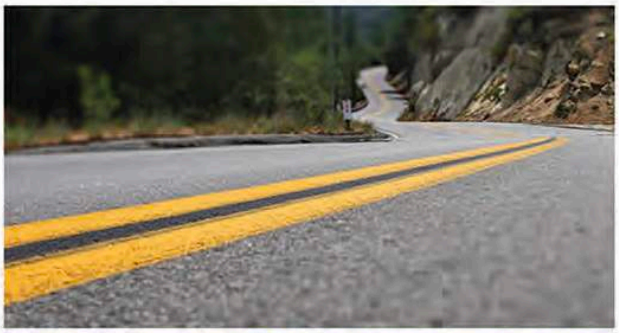
White spirit: partially soluble
Aromatic: soluble
Methyl ethyl ketone: Soluble
Butylacetate: soluble
Alcohols: needs to be tested.
Specific characteristics:
- great adherence to the surface
- high hardness
- yellowing resistance

Miscibility

- Thermoplastic Acrylic resins
- Thermoplastic nano- composite acrylic resin

Storage:

Keep way from direct sunlight and under 30 °C.
Stability:
Under aforementioned conditions: 9 months from production date.



Nanocomposite Thermoplastic Acrylic
POLYACRYL, AC-342 AR60 -NA2

Product Description:

This product is a copolymer of acrylic acid and acrylic and methacrylic acid esters modified by nano- particles.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Appearance	Viscous Liquid	---	---
Color	Less than 1	gardner	----
Solid content	60± 1	%	ISO-3251
Acid value	7-11	Mg KOH/g solid	ISO 2114
Viscosity D6/25°C/50%(AR))	55-90	Sec	ISO-2431

Solubility

White spirit: partially soluble
Aromatic: Butyl acetate:soluble
Methyl ethyl ketone: Soluble
Alcohols: needs to be tested.
Specific characteristics:
- great adherence to the surface
- high hardness
- yellowing resistance
-abrasion resistance
-scratch resistance
Miscibility:
-Thermoplastic Acrylic resins

Application:

This product is recommended for production of traffic paints for mild and cold climates.
Here are some of the differences between na-no-composite and usual thermoplastic acrylic resins.

Resin	Product code	Scratch resistance	Abrasion resistance
Nano composite resins	342AR60NA2	5 Kg	3.5 mg
Typical resin	340AR60	2.5 Kg	6.5 mg

Storage:

Keep way from direct sunlight and under 30 °C.
Stability:
Under aforementioned conditions: 9 months from production date.

Methacrylic resin for cold plastic markings
POLYACRYL, AC-500

Chemical / physical nature

AC-500 is copolymer of esters of acrylic Acid and methacrylic acid with styrene.

Technical Information:

Spcific	Amount	Unit	Ref. Standard
Appearance	Clear	-----	------
Solid	30 ± 1	Percent	ISO 3251
Acid value	Max 15	mg KOH/g	ISO-2114
Viscosity	100 ± 20	cps	ISO 2555
Solvent	Xylene	-	
Flash	12	°C	

Storage:

AC-500 should be storage indoors in original unopened and undamaged containers in a dry place at storage temperature under 40 °C.

Stability:

Under the above mentioned storage condition the stability of AC-500 will be 9 month ex work.

Solubility

This resin is soluble in aromatic and aliphatic hydrocarbons, ketones and esters and it is insoluble or partially soluble in alcohol.

Major applications

AC-500 possesses a good pigment wetting capacity, gloss retention, superior weather resistance, hardness and alkaline resistance. This resin is designed to gloss marble and granite stones.

Methacrylic resin for cold plastic markings
POLYACRYL, AC-200

PROPERTIES:

Polyacryl AC-200 is a methacrylate resin, used for permanent cold plastic markings. Cold plastic materials based on Polyacryl AC-200 are permanently elastic, weather resistant and resistant to abrasion. It is used in combination with Polyacryl AC-200, which is aminepre activated. Binder contains paraffin which tends to float when stored for a long period of time at lower temperature. Therefore, the binder must be homogenized before use by stirring.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Appearance	Liquid	-----	------
Color	Light yellow	-----	------
Density	0.91-0.98	gr/cm3	ISIRI 898
Viscosity D6/25°c	9-12	sec	ISO -2431
Gel Time	15-20 Min 2% BPO	min	--------

Application:

Ac-200 is recommended for production of two/three component traffic paints (films with up to 3000µ thickness) in mild and hot climate. Marking compounds, based on Polyacryl A-200 are particularly suitable for manual application with smoothing trowels or draw boxes. Cold plastic material usually Applied to asphalt and surfaces in layer thickness of 1,5 – 2,5 mm

Specific characteristics:

-High flexibility
-High durability of the applied paint
-High resistance against chemicals and weathering conditions.
- yellowing resistance
- low temperature curing time.
-Resistance against fuels and salt.

Curing method:

While making the paint, add appropriate amount of accelerator (100 unit resin/0.7-1 unit accelerator) to the formulation. Then, prior to application add 1-3% benzoyl peroxide powder (paste) to the paint.

Storage:

Keep way from direct sunlight and under 30˚c

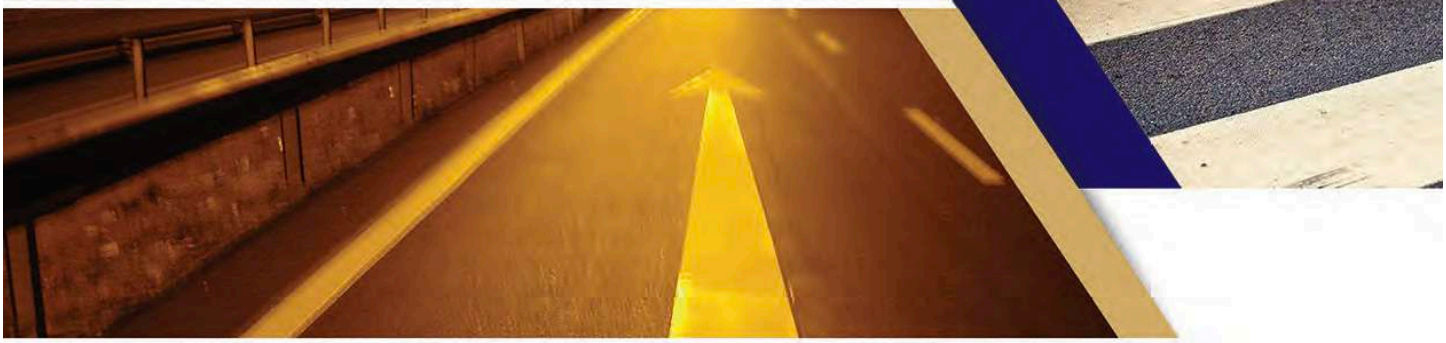
Stability:

under aforementioned conditions:3months from production date.

Note:

To avoid explosion reaction, keep the hardener and the accelerator away from each other.

Methacrylic resin for cold plastic markings
POLYACRYL, AC-800



Technical Information:

Characteristics	Range	Unit	Ref. Standard
Appearance	Liquid	-----	------
Color	Light yellow	-----	------
Density	0.91 - 0.98	gr/cm3	ISIRI 898
Viscosity D6/25°c	8-12	sec	ISO 2431
Gel Time	10 - 12	min	--------

Application:

Ac-800 is recommended for production of two/three component traffic paints
(films with up to 3000µ thickness) in mild and hot climate.
Marking compounds, based on Polyacryl AC-800 are particularly suitable for spray application. Cold plastic material are usually Applied to asphalt and surfaces in layer thickness of 1,5 – 2,5 mm.

Specific characteristics:

-High flexibility
-High durability of the applied paint
-High resistance against chemicals and weathering conditions.
-Resistance against yellowing.
-Suitable low temperature curing time.
-Resistance against fuels and salt.

PROPERTIES:

Polyacryl AC-800 is a methacrylate resin, used for permanent cold plastic markings. Cold plastic materials based on Polyacryl AC-800 are permanently elastic, weather resistant and resistant to abrasion. It is used in combination with Polyacryl AC-800, which is amine pre activated .Binder contains paraffin which tends to float when stored for a long period of time at lower temperature. Therefore, the binder must be homogenized before use by stirring.

Storage:

Keep way from direct sunlight and under 30°c

Stability:

under aforementioned conditions:3months from production date.

Note:

To avoid explosion reaction, keep the hardener and the accelerator away from each other.

Acrylic polyol resin AC – 410

Product Description:

AC- 410 is an acrylic resin with hydroxyl(OH) group which reacts with isocyanate and melamine formaldehyde compounds.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Solvent	Xylene, methoxypropyl acetate (2/1)		
Appearance	Viscose liquid		
Color	Less than 1	gardner	
OH content	4.5 %		
Solid content	60 ± 2	%	ISO 3251
Viscosity	2500-4000	cp	ISO 2555
Acid Value	Max: 7	mg KOH/g	ISO 2144

Application:

This product is recommended for production of two component polyurethane coatings with excellent resistance against chemicals and weather conditions. This resin can be used to make paints and killer for automobile

Final coating characteristics:

- High gloss
- Resistance against weather conditions
- Excellent adherence to the surface
- Good results in salt spray test.
- Excellent mechanical properties.

Storage:

Keep way from direct sunlight and under 25 °C.

Stability:

Under aforementioned conditions: 12 months from production date.

Acrylic polyol resin AC – 411

Product Description:

AC- 411 is an acrylic resin with hydroxyl(OH) group which reacts with isocyanate and melamine formaldehyde compounds.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Solvent	Xylene & solvesso 100		
Appearance	Viscose liquid		
Color	Less than 1	gardner	
OH content	2%		
Solid content	60 ± 2	%	ISO 3251
Viscosity	2500-4000	cp	ISO 2555
Acid Value	Max: 7	mg KOH/g	ISO 2114

Application:

This product is recommended for production of two component poly urethane coatings with excellent resistance against chemicals and weather conditions.

Final coating characteristics:

- High brightness
- Resistance against weather conditions
- Excellent adherence to the surface
- Good results in salt spray test.
- Excellent mechanical properties.

Final coating characteristics:

High brightness

- Resistance against weather conditions
- Excellent adherence to the surface
- Fast drying
- Excellent mechanical properties.

Storage:

Keep way from direct sunlight and under 25 °C.

Stability:

Under aforementioned conditions: 12 months from production date.

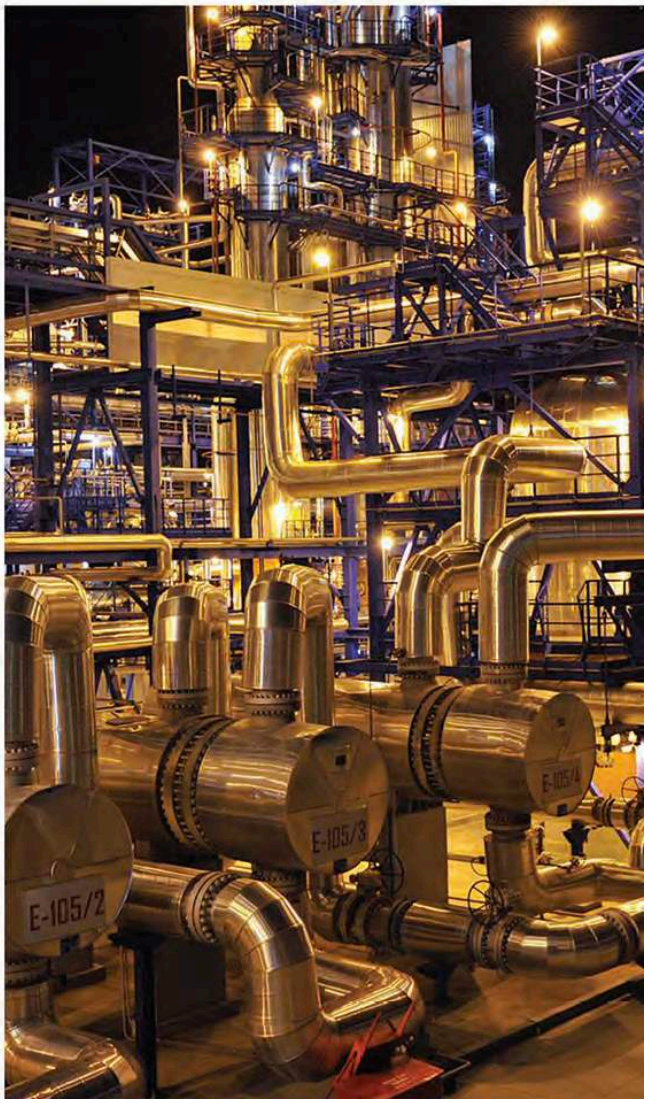
Acrylic polyol resin AC – 465

Product Description:

AC- 465 is an acrylic resin with hydroxyl(OH) group which reacts with isocyanate and melamine formaldehyde compounds.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Solvent	Xylene		
Appearance	Viscose liquid		
Color	Less than 1	gardner	
OH content	2.7 %		
Solid content	60 ± 2	%	ISO 3251
Viscosity	8000-10000	cP	ISO 2555
Acid Value	Max: 7	mg KOH/g	ISO 2114



Application:

This product is recommended for production of two component poly urethane coatings with excellent resistance against chemicals and weather conditions.

Final coating characteristics:

- High brightness
- Resistance against weather conditions
- Excellent adherence to the surface

Storage:

Keep way from direct sunlight and under 25 °C.

Stability:

Under aforementioned conditions: 12 months from production date.

Acrylic polyol resin AC – 466

Product Description:

AC- 465 is an acrylic resin with hydroxyl(OH) group which reacts with isocyanate and melamine formaldehyde compounds.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Solvent	Xylene		
Appearance	Viscose liquid		
Color	Less than 1	gardner	
OH content	2.8%		
Solid content	60 ± 2	%	ISO 3251
Viscosity	7000-9000	cP	ISO 2555
Acid Value	15-20	mg KOH/g	ISO 2114

Application:

This product is recommended for production of two component poly urethane coatings with excellent resistance against chemicals and weather conditions.

Final coating characteristics:

- High gloss
- Resistance against weather conditions
- Excellent adherence to the surface

Storage:

Keep way from direct sunlight and under 25 °C.

Stability:

Under aforementioned conditions: 12 months from production date.

Thermoplastic acrylic(printing resin)
POLYACRYL, AC-358AR60

Product Description:

This product, which represent suitable solubility in heavy aromatic solvents such as cellosolve 100 and 150, is copolymer of acrylic acid and acrylic acid/-methacrylic acid esters with specific initiator

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Appearance	liquid	-----	Company ref. standard22
Color	Yellow /colorless	---	Company ref. standard22
Solid content	60 ± 1	%	ISO 3251
Viscosity D6/25°C	98-102	Sec	ISO 2114
Acid Value	Max:3	mg KOH/ g	ISO 2431
Surface-drying time	Max:40	Min.	ASTMD 1640
Dry through	Max: 150	Min	ASTMD 1640

Application:

The resin is used for printing in glass, ceramics and porcelain. After stencil printing, either manually or automatically applied, this resin shows excellent leveling properties, forms a uniform film after burning and leaves no carbon traces on the surface in the oven.

Final coating characteristics:

Cellosolve: soluble
Aromatic solvents: soluble
MEK: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.

Specific characteristics:

- uniform film surface
- Fast drying
-uniform printing paste
- high brightness
-improved hardness
-acceptable flexibility

Miscibility:

- acrylic printing resin
- printing oil
- varnish

Storage:

Keep way from direct sunlight and under 30 °C.

Thermoplastic acrylic(printing resin)
POLYACRYL, AC-358(B)

Product Description:

This product, which represent suitable solubility in heavy aromatic solvents such as solvesso 100 and 150, is copolymer of acrylic acid and acrylic acid/-methacrylic acid esters with specific initiator.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Appearance	liquid	-----	Company ref. standard22
Color	Yellow /colorless	---	Company ref. standard22
Solid content	1 ± 50	%	ISO 3251
Acid Value	98-102	Sec	ISO 2114
Viscosity D6/25°C))	Max:3	mg KOH/ g	ISO 2431
Surface-drying time	Max:40	Min.	ASTMD 1640
Dry through	Max: 150	Min	ASTMD 1640

Application:

The resin is used for printing in glass, ceramics and porcelain. After stencil printing, either manually or automatically, this resin shows excellent leveling properties, forms a uniform film after burning and leaves no carbon traces on the surface in the oven.

Final coating characteristics:

Solvesso: soluble
Aromatic solvents: soluble
MEK: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.

Solubility:

- uniform film surface
- Fast drying
-uniform printing paste
- high brightness
-improved hardness
-acceptable flexibility

Specific characteristics:

- uniform film surface
- Fast drying
-uniform printing paste
- high brightness
-improved hardness
-acceptable flexibility

Miscibility:

- acrylic printing resin
- printing oil
- varnish

Thermoplastic acrylic(printing oil)
POLYACRYL, AC-459

Product Description:

This product, which represent suitable solubility in heavy aromatic solvents such as cellosolve 100 and 150, is copolymer of acrylic acid and acrylic acid/-methacrylic acid esters with specific initiator

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Appearance	liquid	-----	-----
Color	Colorless/yellow	---	-----
Solid content	30 ± 3	%	ISO 3251
Viscosity D6/25°C	15-35	Sec	ISO 2114
Acid Value	Max:3	mg KOH/g	ISO 2431
Surface-drying time	Max:180	Min.	ASTMD 1640
Dry through	Max: 240	Min	ASTMD 1640

Applications:

The resin is used for printing in glass, ceramics and porcelain. After stencil printing, either manually or automatically, this resin shows excellent leveling properties, forms a uniform film after burning and leaves no carbon traces on the surface in the oven.

Solubility:

Cellosolve: soluble
Aromatic solvents: soluble
MEK: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.

Specific characteristics:

- uniform film surface
- Fast drying
-uniform printing paste
- high brightness
-improved hardness
-acceptable flexibility

Miscibility:

- acrylic printing resin
- printing oil
- varnish

Printing varnish
POLYACRYL, AC-1000 AR50

Product Description:

This product is a copolymer of acrylic acid and acrylic and methacrylic acid esters and soluble in aromatic solvents like Solvesso 100 and Solvesso 150

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Appearance	Liquid	---	
Color	colorless	---	
Solid content	50± 3	%	ISO 3251
Acid Value	80-120	Sec	ISO 2114
Viscosity D6/25°C	Max; 3	Mg KOH/g solid	ISO 2431
Surface-drying time	Max; 20	Min.	ASTM D1640
Dry through	Max: 50	Min.	ASTM D1640

Applications:

AC- 1000 is recommended for printing on china, ceramic and glass and leaves no traces of carbon on the surface after burning in the furnace.

Solubility:

Solvesso: soluble
Aromatics: Soluble
Butyl Acetate: Soluble
Methyl ethyl ketone: Soluble
Alcohols: needs to be tested.

Specific characteristics:

- uniform film surface
- suitable drying time
- high brightness

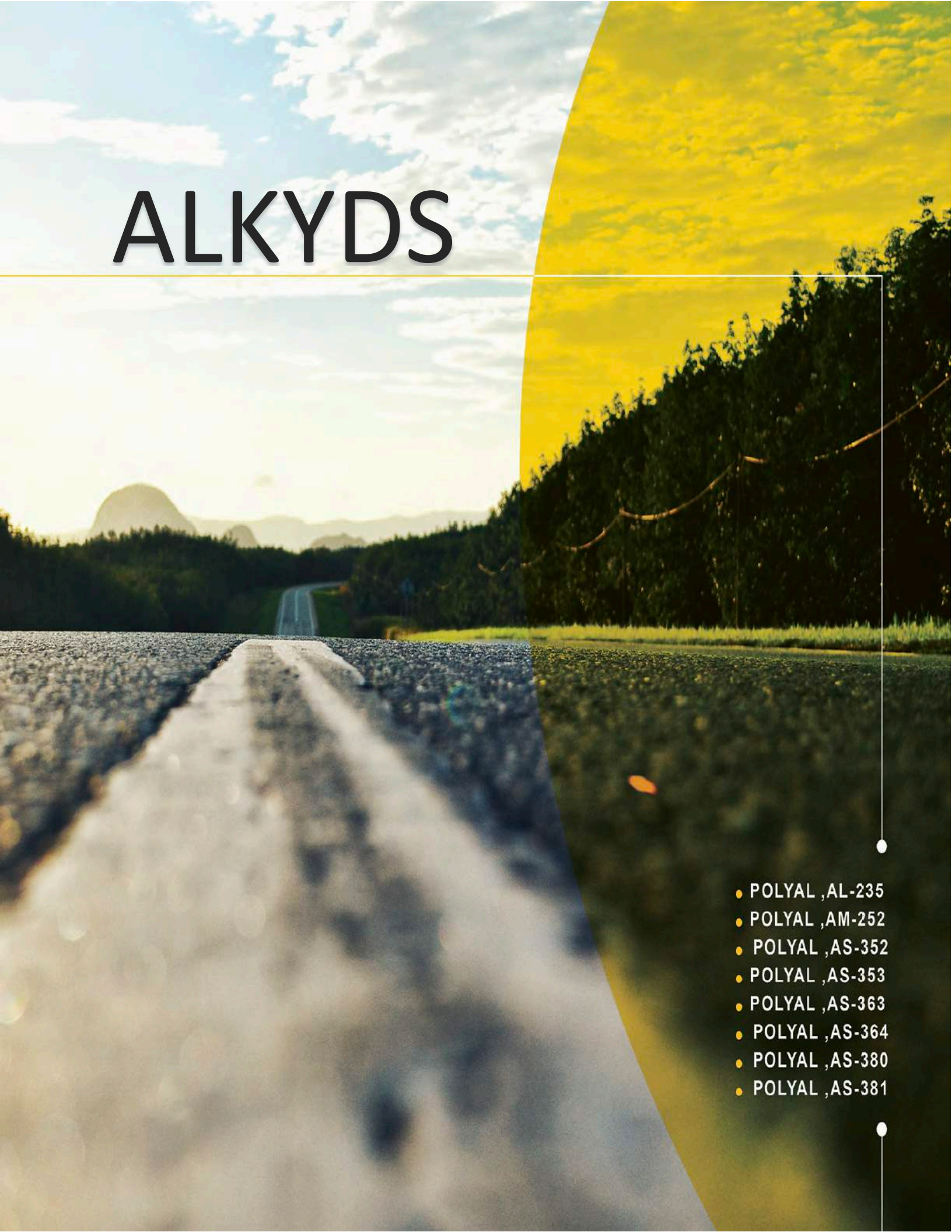
Miscibility:

- Acrylic resins for printing
- Printing oil

Storage:

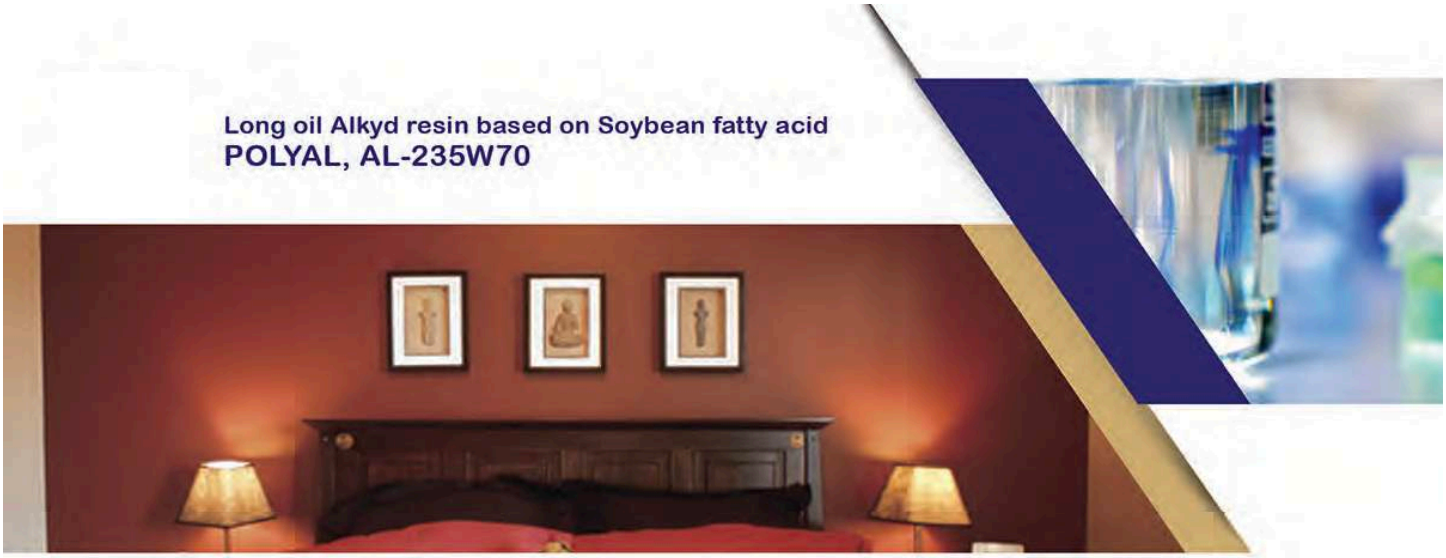
Keep way from direct sunlight and under 30 °C.
Stability:
Under aforementioned conditions: 9 months from production date.

ALKYDS



- POLYAL ,AL-235
- POLYAL ,AM-252
- POLYAL ,AS-352
- POLYAL ,AS-353
- POLYAL ,AS-363
- POLYAL ,AS-364
- POLYAL ,AS-380
- POLYAL ,AS-381

Long oil Alkyd resin based on Soybean fatty acid
POLYAL, AL-235W70



Product Description:

Long oil Alkyd resin based on Soybean fatty acid and Pentaerythritol and Glycerin Alcohol

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Oil Length	59±1	%	ASTM D1398
Phthalic Anhydride Content	25±1	%	ASTM D563
Solid content	70±1	%	ISO 3251
Color	Max:6	Gardener	ASTM D1544
Acid Value	Max:11	mg KOH/g solid	ISO 2114
Viscosity D6/25°C/50 % 402	40 - 55	Sec	ISO 2431

Specifications:

- Excellent pigment wetting
Uniform paint film
Long lasting Modified glossiness
Yellowing and bleaching resistance
Chemicals and water resistance properties.

Miscibility:

Long oil Alkyd resin: Miscible
Medium oil Alkyd resin: Miscible
Short oil Alkyd resin: Immiscible
Industrial Resin: Should be tested.

Storage:

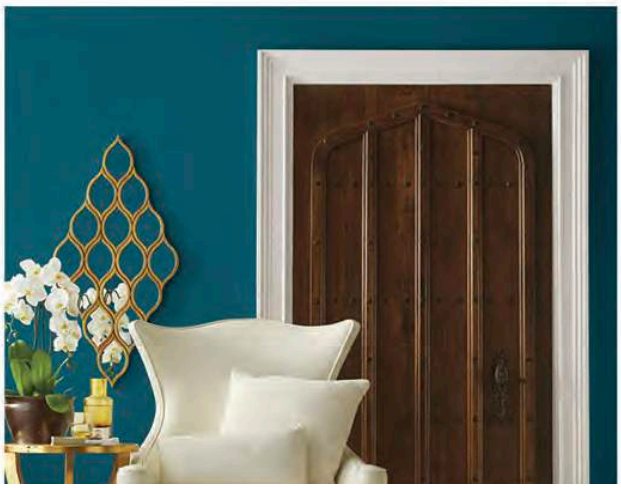
Keep away from heat, direct sunlight and between 5- 40 °C .
Stability:
9 months under the aforementioned conditions.

Applications:

This product is used to produce :
-High gloss and semi-gloss paint
- Primer for wood and metal
- Varnish and building paints and primers.

Solubility:

White Spirit: Soluble
Aromatic Solvents: Soluble
MEK: Soluble
Butyl Acetate: Soluble
Alcohols: needs to be investigated.



Medium oil alkyd resin POLYAL, AM-252 W/T 55

Product Description:

Medium oil alkyd resin based on coconut acid, pentaerythritol alcohol and and soybean oil.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Oil length	50 ± 1	%	ASTM D1398
Anhydride phthalic content	30 ± 1	%	ASTM D563
Solid content	55 ± 1	%	ISO 3251
Color	Max: 5	Gardener	ASTM D1544
Viscosity (D6/25°C/50 % 1/4XY/402	70-100	Sec	ISO 2431
Acid Value	Max: 15	mg KOH/g	ISO 2431

Specific characteristics:

- Fast drying
- improved brightness
- abrasion resistance
- yellowing resistance
- resistance against water and chemicals
- high hardness

Miscibility:

-Long oil alkyd resin: Miscible
Medium oil alkyd resin: Miscible
Short oil alkyd resin: needs test.
Industrial resins: Needs test.

Storage:

Keep way from direct sunlight and between 5-40 °C.
Stability:

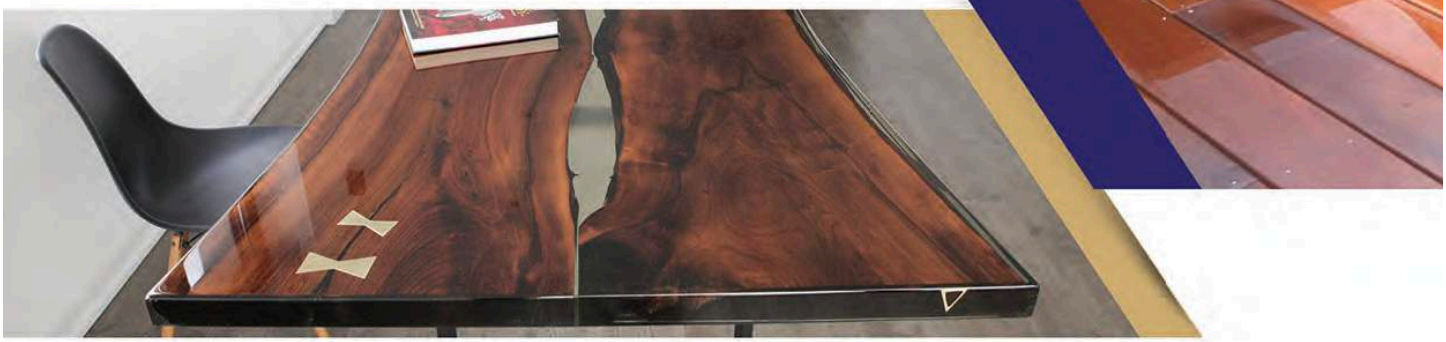
Applications:

The resin is used for production of spray applied coatings such as industrial machines paints, car paint repair, industrial primer and , paints and cabinet/ radiator paint.

Solubility:

White spirit: soluble
Aromatic solvents: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.
MEK : Soluble

Short oil alkyd resin POLYAL, AS-352 XY 60



Product Description:

Short oil alkyd resin based on coconut fattyacid and TMP alcohol.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Oil length	35 ± 1	%	ASTM D1398
Anhydride phthalic content	42 ± 1	%	ASTM D563
Solid content	60 ± 1	%	ISO 3251
Color	Max: 4	Gardener	ASTM D1544
Viscosity D4/25°C/40) % XY)	30-35	Sec	ISO 2431
Acid Value	8-5	mg KOH/g	ISO 2114

Applications:

The resin is used for production high quality matte and gloss polyesterpaints.

Solubility:

White spirit: insoluble
Aromatic solvents: soluble
MEK: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.

Specific characteristics:

- Fast drying
- improved gloss
- improved hardness
- abrasion resistance
- yellowing resistance

Miscibility:

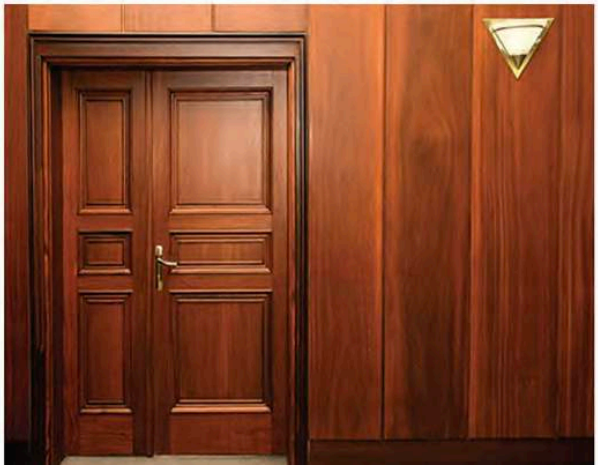
-Long oil alkyd resin: immiscible
Medium oil alkyd resin: Miscible
Short oil alkyd resin: miscible.
Nitrocellulose: miscible
Maleic resin: miscible
Amino resin: miscible

Storage:

Keep way from direct sunlight and between 5-40 °C.

Stability:

Under aforementioned conditions: 9 months from production date.



Short oil alkyd resin

POLYAL, AS-353 AR 60

Product Description:

Short oil alkyd resin based on coconut acid, Pentaeritherol alcohol and glycerin.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Oil length	35 ± 1	%	ASTM D1398
Anhydride phthalic content	42 ± 1	%	ASTM D563
Solid content	60 ± 1	%	ISO 3251
Color	Max: 2	Gardener	ASTM D1259-A
Viscosity D4/25°C/40 % XY/)	35-30	Sec	ISO 2431
Acid Value	8-5	mg KOH/g	ISO 2114

Applications:

The resin is used for production of heat resistant paints together with melamine formaldehyde and nitrocellulose resins for metal coatings.

Solubility:

White spirit: insoluble
Aromatic solvents: soluble
MEK: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.

Specific characteristics:

- Fast drying
- improved brightness
- improved hardness
- abrasion resistance
- yellowing resistance
- resistance against water.

Miscibility:

-Long oil alkyd resin: immiscible
Medium oil alkyd resin: Miscible
Short oil alkyd resin: miscible.
Nitrocellulose: miscible
Maleic resin: miscible
Amino resin: miscible

Storage:

Keep way from direct sunlight and between 5-40 °C.

Stability:

Under aforementioned conditions: 9 months from production date.

Short oil alkyd resin
POLYAL, AS-364 AR 60

Product Description:

Fast drying short oil alkyd resin (chain stop) based on soya fatty acid and glycerol alcohol.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Oil length	32 ± 1	%	ASTM D1398
Anhydride phthalic content	30 ± 1	%	ASTM D53
Solid content	60 ± 1	%	ISO 3251
Color	Max: 4	Gardener	ASTM D1544
Viscosity D6/25°C/50) (XY %	40-60	Sec	ISO 2431
Acid Value	Max:15	mg KOH/g	ISO 2114

Applications:

The resin is used to manufacture fast drying pints such industrial machines paint, hammer paint, radiator paint and cabinet paint.

Solubility:

White spirit: insoluble
Aromatic solvents: soluble
MEK: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.

Specific characteristics:

- Fast drying
- improved gloss
- improved hardness
- abrasion resistance
- yellowing resistance

Miscibility:

- Long oil alkyd resin: immiscible
- Medium oil alkyd resin: Miscible
- Short oil alkyd resin: miscible.
- Nitrocellulose: miscible
- Maleic resin: miscible
- Amino resin: miscible

Storage:

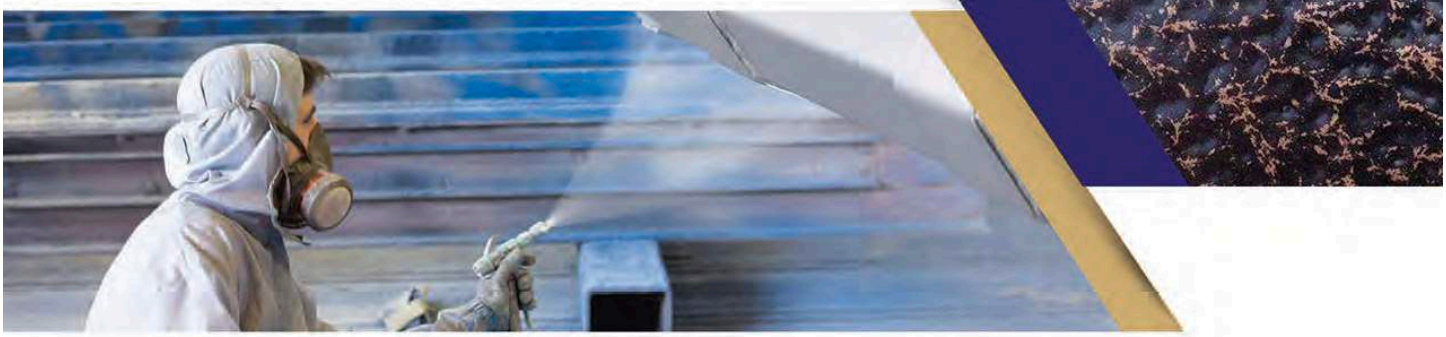
Keep way from direct sunlight and between 5-40 °C.

Stability:

Under aforementioned conditions: 9 months from production date.

Short oil alkyd resin

POLYAL, AS-364 AR 60



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Fast drying short oil alkyd resin (chain stop) based on soya fatty acid and glycerol.

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Characteristics	Range	Unit	Ref. Standard
Oil length	32 ± 1	%	ASTM D1398
Anhydride phthalic content	30 ± 1	%	ASTM D53
Solid content	60 ± 1	%	ISO 3251
Color	Max: 6	Gardener	ASTM D1544
Viscosity D6/25°C/50) % XY)	30-35	Sec	ISO 2431
Acid Value	Max:10	mg KOH/g	ISO 2114

Applications:

The resin is used to manufacture fast drying pints such industrial machines paint, hammer paint, radiator paint and cabinet paint.

Solubility:

White spirit: insoluble
Aromatic solvents: soluble
MEK: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.

Specific characteristics:

- Fast drying
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- improved hardness
- abrasion resistance
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- Maleic resin: miscible
- Amino resin: miscible

Storage:

Keep way from direct sunlight and between 5-40 °C.

Stability:

Under aforementioned conditions: 9 months from production date.

Short oil alkyd resin
POLYAL, AS-380 AR 60

Product Description:

Short oil alkyd resin based on soya fatty acid and glycerin..

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Oil length	35 ± 1	%	ASTM D1398
Anhydride phthalic content	43 ± 1	%	ASTM D53
Solid content	60 ± 1	%	ISO 3251
Color	Max: 5	Gardener	ASTM D1544
Viscosity D4/25°C/40) (XY %	50-80	Sec	ISO 2431
Acid Value	Max:10	mg KOH/g	ISO 2114

Applications:

The resin is used to manufacture alkyd amine heat resistant paint.

Solubility:

White spirit: insoluble
Aromatic solvents: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.
MEK : soluble

Specific characteristics:

- Fast drying
- improved gloss
-improved hardness
-abrasion resistance
-yellowing resistance

Miscibility:

Long oil alkyd resin: immiscible
Medium oil alkyd resin: Miscible
Short oil alkyd resin: miscible.
Nitrocellulose: miscible
Maleic resin: miscible
Amino resin: miscible

Storage:

Keep way from direct sunlight and between 5-40 °C.

Stability:

Under aforementioned conditions: 9 months from production date.

Short oil alkyd resin

POLYAL, AS-381 AR 60

Product Description:

Short oil alkyd resin based on soya fatty acid, glycerin and penthaerithrol alcohol.

Technical Information:

Characteristics	Range	Unit	Ref. Standard
Oil length	35 ± 1	%	ASTM D1398
Anhydride phthalic content	43 ± 1	%	ASTM D53
Solid content	60 ± 1	%	ISO 3251
Color	Max: 5	Gardener	ASTM D1544
Viscosity (D4/25°C/40 % XY/)	30-35	Sec	ISO 2431
Acid Value	4-7	mg KOH/g	ISO 2114

Applications:

The resin is used to manufacture alkyd amine heat resistant paint.

Solubility:

White spirit: insoluble
Aromatic solvents: soluble
Butyl acetate: soluble
Alcohols: needs to be tested.
MEK : soluble

Specific characteristics:

- Fast drying
- improved gloss
-improved hardness
-abrasion resistance
-yellowing resistance

Miscibility:

Long oil alkyd resin: immiscible
Medium oil alkyd resin: Miscible
Short oil alkyd resin: miscible.
Nitrocellulose: miscible
Maleic resin: miscible
Amino resin: miscible

Storage:

Keep way from direct sunlight and between 5-40 °C.

Stability:

Under aforementioned conditions: 9 months from production date.

Epoxy

- Epoxy Ester Resin EE-1127
- Epoxy Resin Polytox EP-96
- Epoxy Resin Polytox EP-100
- Epoxy Resin Polytox EP-200
- Epoxy Resin Polytox EP-215
- Epoxy Resin Polytox EP-310
- Epoxy Resin Polytox EP-500

Epoxy EsterResin EE-1127

Chemical / physical nature

EE – 1127 is a modified epoxy with drying fatty acid in aliphatic solvent.

Specification			
Specific	**amount**	**unit**	**standard**
Appearance	Viscos liquid	-------	-------
Color	max 8	gardner	-------
Solid content	96-98	Percent	ISO 3251
Acidic number	max 10	Mg KOH/gr	ISO 2114
Viscosity	2000-4000	cps	ISO 2555

Stability

Under the above mentioned storage condition the stability of EP - 1127 will be 12 month ex work.

Major application

This resin is recommended for industrial air-drying paint, were high resistance to corrosion environment is required. This resin also suitable for stoving paint and varnish with melamine formaldehyde resin.

Storage

EP – 1127 should be storage indoors in original Un-opened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sun-light should be avoided.

Epoxy Resin Polytox EP-96

Chemical / physical nature

Polytox EP – 96 is an epoxy based on BPHA with polyamine. This resin intended for reinforced marble stone with fast curing.

Specification

Specific	amount	unit	standard
Appearance	Viscos liquid	-------	-------
Color	Less than 1	gardner	-------
Solid content	96-98	Percent	ISO 3251
Gel time	10	min	Internal standard*
Viscosity	350-550	cps	ISO 2555

*100 gr mixture of resin and hardener at 25 °C

Mix ratio

- 100 part resin
- 20 part hardener

Properties

- Fast surface drying
- Light color
- Fast curing
- Good adhesive to stone
- Good permeability

Storage

EP – 96 should be storage indoors in original Un-opened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sun-light should be avoided.

Stability

Under the above mentioned storage condition the stability of EP - 96 will be 9 month ex work.

Epoxy Resin Polytox EP-100

Chemical / physical nature

EP – 100 is a solvent free product based on epoxy, cured with amine hardener.

Specification

Specific	amount	unit	standard
Appearance	Viscos liquid	-------	-------
Color	Light yellow	gardner	-------
Solid content	100	Percent	ISO 3251
Gel time	10	min	Internal standard*
Viscosity	2000-4000	cps	ISO 2555

*100 gr mixture of resin and hardener at 25 °C

Mix ratio

- 100 part resin
- 20 part hardener

Properties

- Fast surface drying
- Fast curing at low temperatures
- Usable in furnace curing processes

Storage

EP – 100 should be storage indoors in original Un-opened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sun-light should be avoided.

Stability

Under the above mentioned storage condition the stability of EP - 100 will be 9 month ex work.

Epoxy Resin Polytox EP-200

Chemical / physical nature

EP – 200 is a solvent free product based on epoxy, cured with amine hardener.

Specification

Specific	amount	unit	standard
Appearance	Viscos liquid	-------	-------
Color	Light yellow	-------	-------
Solid content	100	Percent	ISO 3251
Gel time	15	min	Internal standard
Viscosity	1000-3000	cps	ISO 2555

*100 gr mixture of resin and hardener at 25 °C

Mix ratio

- 100 part resin
- 25 part hardener

Properties

- Fast curing
- Fast surface drying
- Usable at high and low temperatures

Storage

EP – 200 should be storage indoors in original Un-opened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sun-light should be avoided.

Stability

Under the above mentioned storage condition the stability of EP - 200 will be 9 month ex work.

Epoxy Resin Polytox EP-215

Chemical / physical nature

Polytox EP – 215 is an epoxy based on BPHA with poly-amine. This resin intended for molding and imagery.

Specification

Specific	amount	unit	standard
Appearance	Viscos liquid	-------	-------
Color	Less than 1	gardner	-------
Solid content	100	Percent	ISO 3251
Gel time	60	min	Internal standard*
Viscosity	300-600	cps	ISO 2555

*100 gr mixture of resin and hardener at 25 °C

Stability

Under the above mentioned storage condition the stability of EP - 215 will be 9 month ex work.

Mix ratio

- 100 part resin
- 25 part hardener

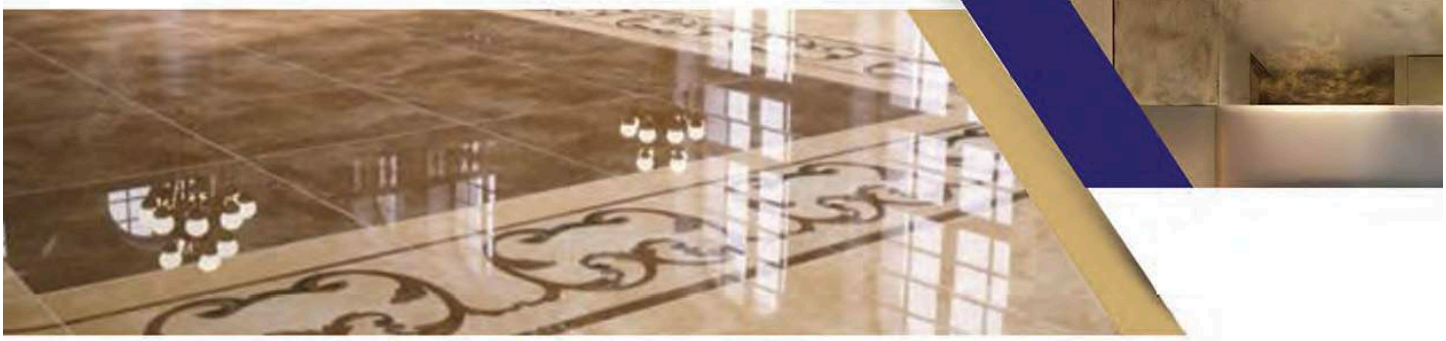
Properties

- Light surface drying
- Light color
- Can molded with high thickness
- Yellowing resistance

Storage

EP – 215 should be storage indoors in original Un-opened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sun-light should be avoided.

Epoxy Resin Polytox EP-310



Chemical / physical nature

Polytox EP – 310 is an epoxy based on BPHA with poly-amine. This resin intended for molding and marble stone in room temperature.

Specification

Specific	amount	unit	standard
Appearance	Viscos liquid	-------	-------
Color	Less than 1	gardner	-------
Solid content	100	Percent	ISO 3251
Gel time	40	min	Internal standard*
Viscosity	800-1200	cps	ISO 2555

*100 gr mixture of resin and hardener at 25 °C

Mix ratio

- 100 part resin
- 25 part hardener

Properties

- Light surface drying
- VOC free
- Light color
- Good adhesive
- Impact resistant
- Yellowing resistance
- High permeability
- Good curing

Storage

EP – 310 should be storage indoors in original Un-opened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sun-light should be avoided.

Stability

Under the above mentioned storage condition the stability of EP - 310 will be 9 month ex work.

Epoxy Resin Polytox EP-500

Chemical / physical nature

Polytox EP – 500 is an epoxy based on BPHA with cyclioaliphatic polyamine. This resin intended for molding

Specification

Specific	amount	unit	standard
Appearance	Viscos liquid	-------	-------
Color	Less than 1	gardner	-------
Solid content	96-98	Percent	ISO 3251
Gel time	20	min	Internal standard*
Viscosity	350-550	cps	ISO 2555

*100 gr mixture of resin and hardener at 25 °C

Mix ratio

- 100 part resin
- 15 part hardener

Properties

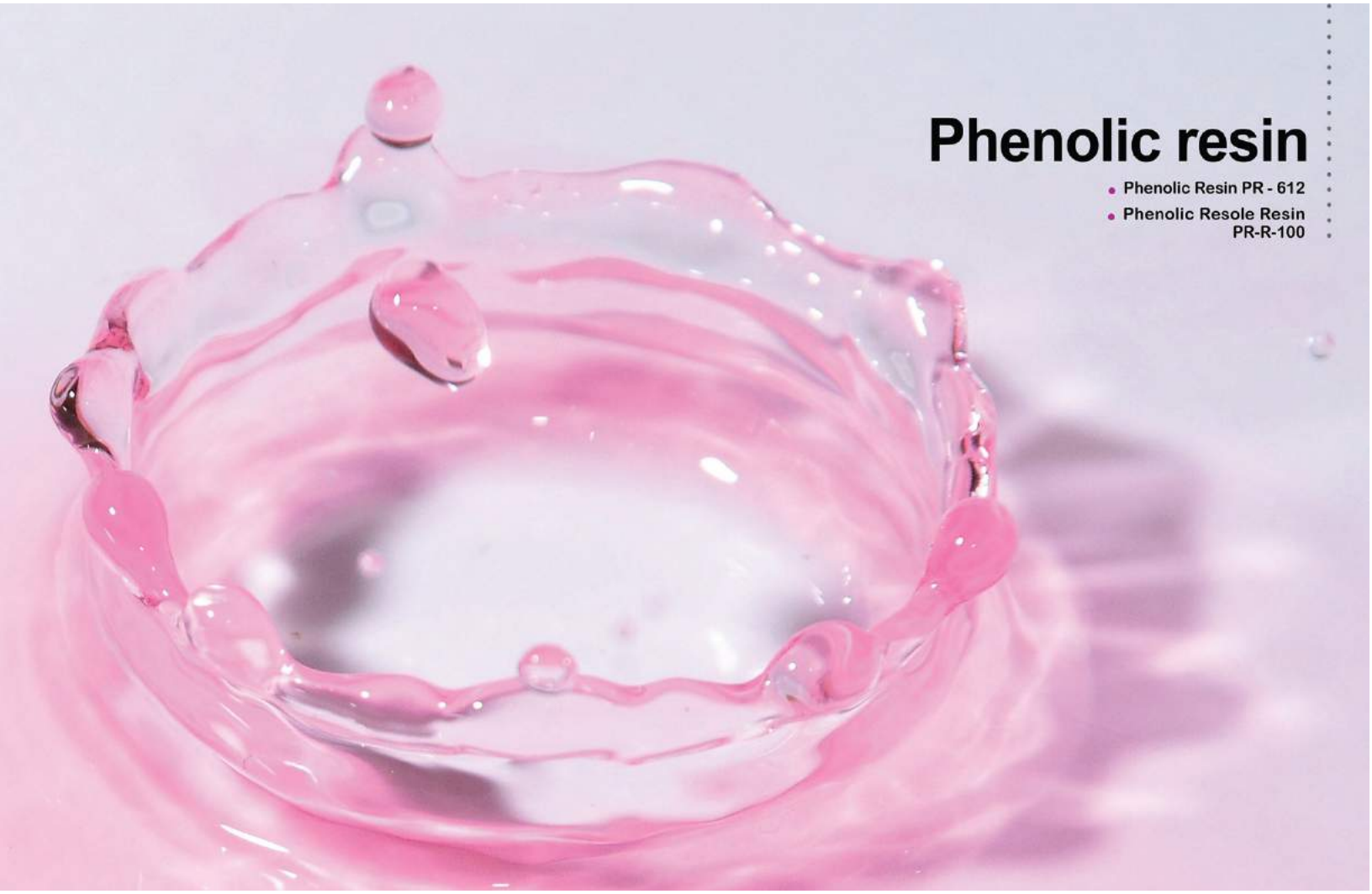
- Light color
- Can molded in high thickness
- Yellowing resistance
- Fast curing

Storage

EP – 500 should be storage indoors in original Unopened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sunlight should be avoided.

Stability

Under the above mentioned storage condition the stability of EP - 500 will be 9 month ex work.


Phenolic resin
Phenolic Resin PR - 612
Phenolic Resole Resin
PR-R-100

Phenolic resin PR - 612

Chemical / physical nature

PR – 612 is a curable liquid phenolic resin based on cresolic acid.

Major applications

Heat curable phenolic/epoxide resin combination, high-adhesion, chemically resistance protective coating for apparatus, vessels and pipelines. PR-612 also can be used for wire insulation varnishes.

Specification

specific	amount	unit	standard
Color	Brown		
Appearance	Clear		
Solid content	50 ± 3	Percent	ISO 3251
Viscosity	1300-1700	cps	ISO 2555
Density	1.05±0.5%	g/cm3	ISO 1675
Flash point	40	Degree of centigrade	

Special properties

- High solid content
- Low viscosity
- Medium activity
- High flexibility
- High bending strain

Curing condition

The addition of acid catalyst, increase the reactivity of the lacquers and the adhesion of stoved films. Ratio of phenolic/epoxide used 30/70 until 45/55 based on solid resin. Best properties obtained with 180 to 220 degree of centigrade thermal of stove for 20 to 30 minutes time,

Dilutability

Solvent	Dilutabiliate	Non Dilutabiliat
Xylene		✓
Methyl acetate	✓	
MIBK	✓	
Ethyl acetate	✓	
White spirit		✓
Methoxypropyl acetate	✓	
Ethanol	✓	
Butyl acetate	✓	
Butanol	✓	

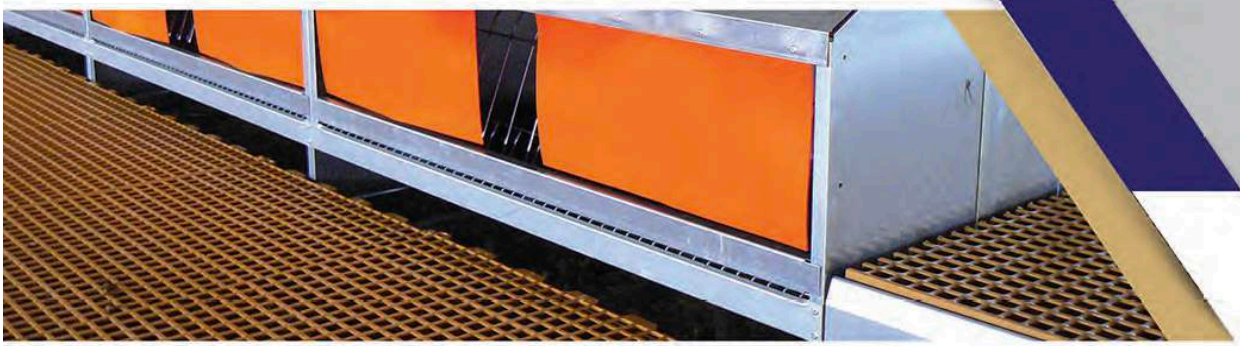
Storage

RP – 612 should be storage indoors in original Un-opened and undamaged containers in a dry place at storage temperature under 15 - 25 ˚c . Exposure to sunlight should be avoided.

Stability

Under the above mentioned storage condition the stability of PR – 612 will be 12 month ex work.

Phenolic resol resin PR-R-100



Chemical / physical nature

PR-R-100 is a liquid phenolic resole resin based on formaldehyde and phenol

Major applications

PR-R-100 used in wood adhesive and paper industrial for cellulose path production.

Stability

Under the above mentioned storage condition the stability of PR-R-100will be 8 weeks ex work.

Specification

specific	amount	unit	standard
Color	red		
Appearance	Clear		
Solid content	50 ± 3	Percent	ISO 3251
PH value	8-11		
Viscosity D6/25c	100-120	cps	ISO 2555
Density	1.05±0.5%	g/cm3	ISO 1675
Free phenol content	Less than 3	Present	GC
Water tolerance	infinity		

Storage

PR-R-100 should be storage indoors in original Un-opened and undamaged containers in a dry place at storage temperature under 18 - 20 ˚c . Exposure to sunlight should be avoided.

polyurethane

- POLYTPU – 100
- PU-UV-1000

One Component Polyurethane adhesive POLYTPU-100

Chemical / physical nature

PU– 100 is a one component polyurethane based on aromatic isocyanate that can be air drying.

Stability

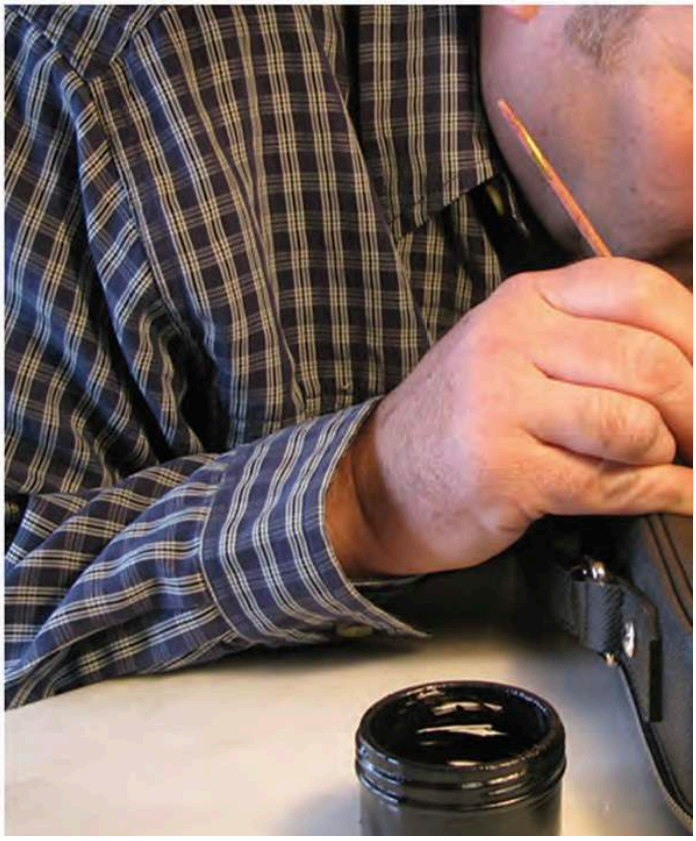
Under the above mentioned storage condition the stability of PU - 100 will be 6 month ex work.

Major applications

- Sealing
- Elastic impactor
- adhesion

Specification

specific	amount	unit	standard
Appearance	Viscous liquid	-------	-------
Color	yellow		
Solid content	min 85	Percent	ISO 3251
Viscosity	10000-20000	cps	ISO 2555



Properties

- rapid drying
- Flexibility
- Environmental resistance.
- Can be applied with brush and roller

Storage

PU – 100 should be storage indoors in original Unopened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sunlight should be avoided.

UV Curing Polyurethane Acrylate
PU- UV-1000

Chemical / physical nature

PU-UV – 1000 is an aliphatic polyurethane acrylate resin that curing with UV - radiation.

Major applications

The PU-UV-1000 is used for printing in paper and varnish for PVC layer.

Stability

Under the above mentioned storage condition the stability of PU-UV - 1000 will be 4 month ex work.

Specification

specific	amount	unit	standard
Appearance	Viscous liquid	-------	-------
Solid content	95 ± 2	Percent	ISO 3251
Viscosity	10000-20000	cps	ISO 2555
Curetime	5-9	Sec	

Properties

- Extremely fast surface and deep curing
- Flexibility
- Abrasion resistance
- Environmental resistance

Storage

PU -UV – 1000 should be storage indoors in original Unopened and undamaged containers in a dry place at storage temperature under 25 °C. Exposure to sunlight should be avoided.

Contact Details

For inquiries and questions please contact us by the following email and phone:

Phone: +971-569772571
Whatsapp: +971-569772571
Email: Commercial@abwabcorp.com