



Products Catalogue  
2013 Edition



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**EAGLE CHEMICALS**<sup>TM</sup>  
RENEWS YOUR YOUTH LIKE THE EAGLE

# Company Profile

EAGLE CHEMICALS is one of the pioneers in the Egyptian chemical industry that shaped the chemical industry in the recent years not only in Egypt but also in Africa, Middle East and Europe. EAGLE CHEMICALS rapidly became the leading producer of resin and polymer products in the region, and is marketing its products to more than 50 countries as it possesses an extensive manufacturing capacity, supply, technical and commercial infrastructure.



EAGLE CHEMICALS has a wide portfolio ranging from solvent based resins as alkyd, maleic, unsaturated and saturated polyester, acrylic, amino, epoxy ester and phenolic to water based emulsions (copolymers and homopolymers) that enhanced the design and functionality of its products in a wide variety of applications.



EAGLE CHEMICALS has been actively participating in the development and growth of the chemical industry in the region by its broad product portfolio, extensive technology expertise and strong knowledge of the global and local market conditions, as well as its continuous introduction of new developed products in response to dynamic and demanding markets.



EAGLE CHEMICALS started as a family business in 1958, as a paint factory, then they built the resin factory in 1995, followed by the polymers factory in 2005 and later the acrylic factory in 2007.



## EAGLE CHEMICALS Vision

To be one of the global industry leader in providing consistent quality and added value products, services and logistics, underscored by international quality standards.

## EAGLE CHEMICALS Mission

To formulate and supply custom finishing solutions for our customer's coating requirements to ensure long term partnerships and continued success of each stakeholder in the company, its customers, suppliers and employees and become a socially responsible global corporate.

EAGLE CHEMICALS is usually committed to continuous growth and development, that's why it has recently enhanced its entire value chain by:

- Acquiring a new tank farm in 2009 with a storage capacity exceeding 10,000 cubic meters.
- Running a fully automated production, and batch process units to ensure the consistent quality of its products.
- Accomplishing the construction of a new fully automatic filling line to enhance packing.
- Facilitating bulk deliveries allowing cost reduction to both its local and overseas customers.
- Ensuring efficient and extensive technical support through its technical expertise and updated labs working on joint development with its customers, to help them fulfilling their different manufacturing requirements.
- The newly developed application labs, for the diverse applications of its products as wood coating, car coating, can coating, decorative coating, ink coatings, adhesives, pressure sensitive adhesive, etc..., ensuring the production of tailor made products to its customers.

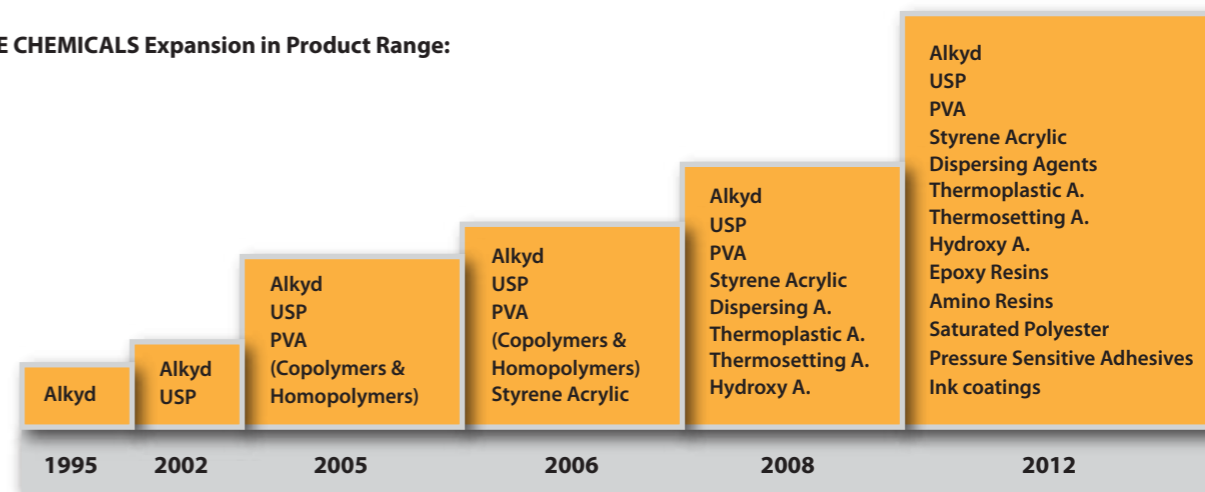
Environmental protection is also the genuine commitment of EAGLE CHEMICALS, as the safe manufacture and use of its products require its dedicated care and expertise, that's why EAGLE CHEMICALS is managing its facilities to protect the environment and the health and safety of its people.

EAGLE CHEMICALS had successfully achieved OHSAS 18001 and ISO 14001 and confirmed as exempt from the "REACH" registration requirements under the REACH polymer exemption clause. Its products are labeled to GHS/CLP standards.

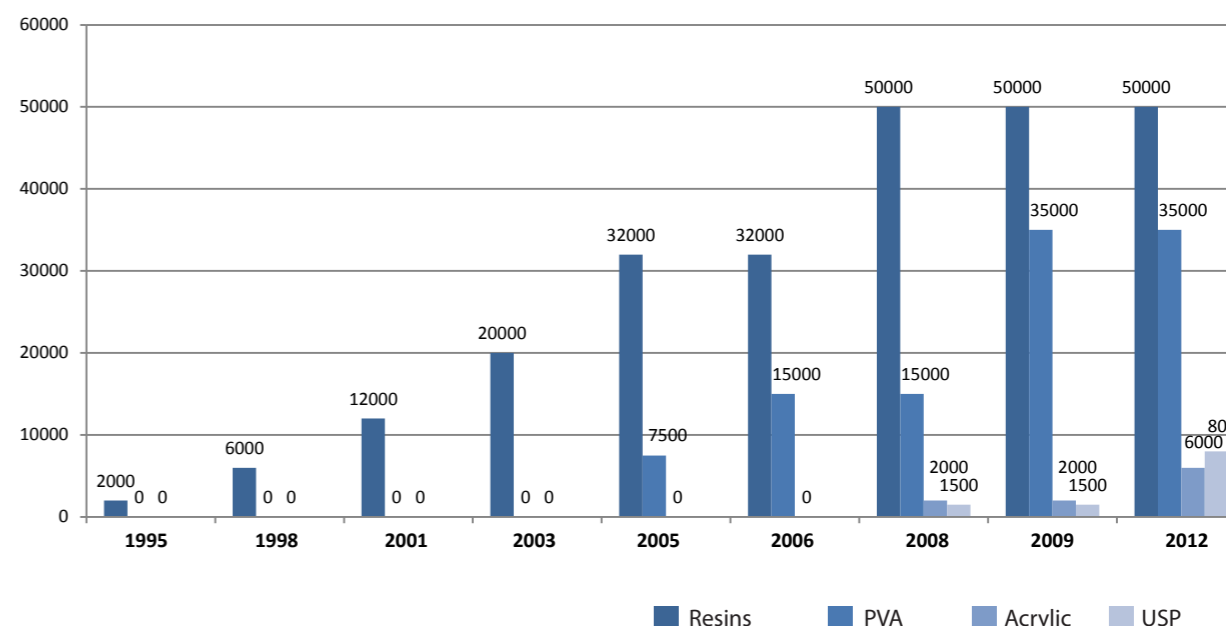
**EAGLE CHEMICALS, insists to:**  
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To find out more about how to get to where you want to be, Please contact or visit [www.eagle-chemicals.com](http://www.eagle-chemicals.com)

**EAGLE CHEMICALS Expansion in Product Range:**



**EAGLE CHEMICALS Expansion in Production Capacity (Tons):**



# Alkyd Resins

- Long Oil Alkyd Resins
- Medium Oil & Changed Stopped Alkyd Resins
- Urethenated Oil
- Urethenated Alkyd Resins
- Thixotropic Alkyd Resin
- Treated Oils
- Short Oil Air Dry Alkyd Resins
- Short Oil Non-Drying Alkyd Resins
- Copolymerized Alkyd Resin
- Rosin Modified Alkyd Resin

## Alkyd Resins How To Read Our Codes?



Kind of Resin

LA	Long oil alkyd resin	RMA	Phenolic resin and/or rosin modified alkyd resin
MA	Medium oil alkyd resin	TO	Treated oil
SDA	Short oil air drying	CA	Copolymerized alkyd resin
SNDA	Short non drying alkyd resin	MR	Maleic Resin
UO	Urethenated oil	GA	Gel Alkyd (Thixotropic)
UA	Urethenated alkyd resin		



Type of oil / fatty acids

S	Soya oil	COC	Coconut fatty acids/oil	SFF	Safflower oil
S	Sunflower oil	DC	Dehydrated castor oil	LR	Linoleic rich fatty acid
L	Linseed oil	C	Castor oil	V	Vegetable oil
T	Tall oil fatty acid	SFA	Synthetic fatty acids	TU	Tung oil
F	Fish oil	SF	Sunflower fatty acid	CN	Cashew nut



Type of solvent

W	White Spirit (Low aromatic content)	X	Xylene
WZ	White Spirit (Zero aromatic content)	T	Toluene
		M	Different types of mixed solvents



Oil / fatty acids content



Viscosity in Poise at the specified solid content



Specified solid content

### LA-EAGLE(SW 61-20/55)

Long oil alkyd resin based on sunflower or Soya bean oil diluted in W.Spirit of oil content 61 % & Viscosity of 20 poise at 55 % solid content.



Product	Solid %	Solvent Composition	Type of Oil	Oil %	PA %	Type of Polyol	Acid Value	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
LA-EAGLE (SW61-20/55)	70	White Spirit	Sunflower or Soya bean	61	28	Penta	8 Max.	Z8 at 70% & Y-Z at 55%	2000 at 55%	5 Max.	Good gloss & gloss retention, Good adhesion, Brush ability & leveling, good yellowing resistance & hardness.	Interior & exterior house paints, Varnish floor sealers, Porch & deck enamels.
LA-EAGLE (SW60-36/55)	70	White Spirit	Sunflower or Soya bean	60	29	Penta	8 Max.	Z10 at 70% & Z2 at 55%	3600 at 55%	5 Max.	Very high Viscosity, Good Adhesion & hardness, Light color, High gloss & gloss retention.	Interior & exterior house paints, Gloss enamel, High viscosity paints, Varnish & floor sealers.
LA-EAGLE (SW61-9/55)	70	White Spirit	Sunflower or Soya bean	61	28	Penta	12 Max.	Z6 at 70% & V-W at 55%	900 at 55%	5 Max.	Brush ability & leveling, Light color with good yellowing resistance properties, High gloss & gloss retention.	Interior & exterior house paints, Non yellowing medium viscosity paints, Gloss enamel, Varnish & floor sealers (with light color).
LA-EAGLE (SW64-65/70)	70	White Spirit	Sunflower or Soya bean	64	25	Mixed Polyol	10 Max.	Approx. Z4 at 70%	6500 at 70%	5 Max.	High gloss & gloss retention, Brush ability & levelling, Very good flexibility.	High gloss paints, Exterior house paints.
LA-EAGLE (SFW61-97/70)	70	White Spirit	Non yellowing sunflower fatty acids	61	25	Penta	8 Max.	Z5-Z6 at 70%	9700 at 70%	5 Max.	Excellent yellowing resistance in dark, Very good outdoor durability, Light color, High gloss & gloss retention.	Highly recommended for white/light colored high gloss paints because of its interior non yellowing properties in dark, Gloss enamel for outdoor.
LA-EAGLE (SFW 61-20/55)	70	White Spirit	Non yellowing sunflower fatty acids	61	28	Penta	8 Max.	Y-Z at 55%	2000 at 55%	5 Max.	Excellent yellowing resistance , High gloss and gloss retention.	Highly recommended for white colored high gloss paints.
LA-EAGLE (LW66-22/70)	70	White Spirit	Linseed	66	22	Gly. / Penta	10 Max.	Approx.Z at 70%	2200 at 70%	8 Max.	Very high gloss, Fast drying time, Good exterior durability, Very good adhesion.	Colored enamels, Anti corrosion primers for metals.
LA-EAGLE (SW65-4/60)	75	White Spirit	Sunflower or Soya bean	65	24	Penta	10 Max.	O-P at 60% & Y-Z at 70%	400 at 60%	5 Max.	Very low Viscosity, Good Adhesion & hardness, Light color, High gloss & gloss retention, Brush ability & levelling.	Interior & exterior house paints, Gloss enamel, High viscosity paints, High build varnish & floor sealers.
LA-EAGLE (SWZ68-50/75)	85	Zero aromatic W. Spirit (D40 or D60)	Sunflower or Soya bean	68	23	Penta	10 Max.	Z3-Z4 at 75%	5000 at 75%	5 Max.	High solid alkyd resin, High gloss & gloss retention, Medium Viscosity, High solid alkyd resin, very good pigment wetting properties.	Very high gloss enamels, Interior & exterior decorative paints, Special for low VOC paints.
LA-EAGLE (SWZ64-5/70)	80	Zero aromatic W. Spirit (D40 or D60)	Sunflower or Soya bean	64	24	Penta	10 Max.	O-T at 70%	500 at 70%	6 Max.	High solid alkyd resin, High gloss & gloss retention, Very Low Viscosity, Very good pigment wetting properties.	Very high gloss enamels, Interior & exterior decorative paints, Special for low VOC paints, Diluted with k. odorless.
LA-EAGLE (S68-15/100)	99	–	Sunflower or Soya bean	68	20	Penta	15 Max.	Y-Z1 at 100%	1500 at 100%	6 Max.	Ultra high solid content, Very low viscosity, High gloss, Very good leveling & Very good Brushability.	Interior & exterior decorative paints, Varnish, Very low viscosity paint & High gloss finishes.
LA-EAGLE (L70-170/100)	99	–	Linseed	70	–	Penta	15 Max.	Z6-Z7 at 100%	17000 at 100%	10 Max.	Excellent Gloss, Excellent Drying, Excellent Flow and Leveling properties, Very good flexibility & good glass retention.	High quality Isophthalic based long oil alkyd resin for printing inks and silk screen inks.
LA-EAGLE (LRW60-19/55)	70	White Spirit	Linoleic rich fatty acid	60	29	Mixed Polyol	12 Max.	Z8 at 70% and Y-Z at 55%	1900 at 55%	5 Max.	Good adhesion and medium hardness , high gloss and gloss retention.	Interior and exterior house paints , colored high gloss enamel , high viscosity paints , varnish and oor sealers.

Product	Solid ± 1	Solvent Composition	Type of Oil	Oil %	PA %	Type of Polyol	Acid Value	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
MA-EAGLE (SW50-10/40)	50	White Spirit	Soya bean	50	37	Gly./ Penta	10 Max.	V-W at 40%	1000 at 40%	5 Max.	Low solid resin cont, Good wetting properties, Brushability & levelling, Very good flexibility & good gloss retention.	Non yellowing air drying enamel, Low cost industrial & architectural paints, Quick air drying metal primer & finishes (carrepairs & radiator), White color high gloss paints.
MA-EAGLE (SW50-46/55)	60	White Spirit	Sunflower or Soya bean	50	33	Gly./ Penta	10 Max.	Z3-Z4 at 55%	4600 at 55%	5 Max.	Good wetting properties for pigments & fillers, Brushability & levelling, Very good yellowing resistance & hardness.	Enamel undercoat, Non yellowing air drying enamels for decorative & industrial maintenance, Quick air drying metal primer & finishes, for economical stoving enamel (temp 140 - 160 °C).
MA-EAGLE (SW50-148/55)	55	White Spirit	Sunflower or Soya bean	50	34	Penta	8 Max.	Approx.Z6 at 55% & X-Y at 45%	14800 at 55%	5 Max.	High viscosity, Very good yellowing resistance, Brushability & levelling, Very good flexibility & good gloss retention.	Low cost industrial & architectural paints, Non yellowing air drying enamels, Quick air drying metal primer & finishes(carrepairs & radiator), White color high gloss paints, for economical stoving enamel (temp 140 - 160 °C).
MA-EAGLE (SX48-13/70)	70	Xylene	Sunflower or Soya bean	48	34	Glycerin	10 Max.	X-Y at 70%	1300 at 70%	6 Max.	Very fast drying, Good mechanical properties, Brushability & levelling, Very good yellowing resistance.	Fast drying industrial & land machine finishes, Combination with chlorinated rubber & PVC – copolymers, for economical stoving enamel (temp 140 - 160 °C).
MA-EAGLE (LW53-18/55)	55	White Spirit	Linseed	53	35	Glycerin	10 Max.	Y at 55%	1800 at 55%	8 Max.	Very good durability, Superior drying, toughness & abrasion resistance, Very good water resistance.	Enamel undercoat, Do it yourself paints with good gloss, Structural steel paints, Quick air drying metal primer, Stoving Primers.
MA-EAGLE (SWX48-50/60)	60	White Spirit/ Xylene : 3/1	Sunflower or Soya bean	48	32	Gly./ Penta	12 Max.	Z3-Z4 at 60%	5000 at 60%	5 Max.	Very good gloss and gloss retent, Very good yellowing resistance, Fast drying time.	Car repair finishes, High quality Industrial enamel, Machinery Coatings.
MA-EAGLE (SWX53-30/55)	55	White Spirit/ Xylene : 4/1	Soya bean	53	26	Mixture of Polyol	10 Max.	Z1 at 55%	3000 at 55%	5 Max.	Chain Stopped, Mechanical properties Recoatability, Fast drying.	Car repair enamels, Machinery coating, Air drying application.
MA-EAGLE (LRX48-300/75)	75	Xylene	Linoleic Rich Fatty Acid	48	20	Mixture of Polyol	12 Max.	Z7-Z8 at 75%	30000 at 75%	5 Max.	Chain Stopped, Recoatability, Fast drying, Good hardness.	Car repair enamels, Machinery coating, Air drying application, drum paints.
MA-EAGLE (SX45-12/50) 60%	60	Xylene	Soya bean	45	36	Penta	10 Max.	V-X at 50%	1200 at 50%	5 Max.	Extremely fast drying, Excellent hardness, Very good yellowing resistance and good gloss retention.	Car repair finishes, Machinery and drum coatings and High quality industrial enamel.

## Alkyd Resins Urethenated Oil Specification

Note : All the Products can be delivered with zero Aromatic content white spirit (D40 or D60)

Product	Solid ± 1	Solvent Composition	Type of Oil	Oil %	Type of Isocyanate	Type of Polyol	Acid Value	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
UO-EAGLE (SW63-30/60)	60	White Spirit	Sunflower or Soya bean	63	Aromatic	Penta	2 Max.	Z2-Z3 at 60%	3000 at 60%	5 Max.	Light color & high Viscosity, Good adhesion & through hardening, Very good chemical & water resistance, High gloss & fast drying, Very high abrasion resistance.	Varnishes for parquet floors, furniture & boats, Corrosion resistant primers for steel.
UO-EAGLE (SW65-20/80)	80	White Spirit	Sunflower or Soya bean	65	Aromatic	Penta	2 Max.	Y-Z at 80%	2000 at 80%	5 Max.	Ultra high solid content, very low viscosity with excellent gloss.	Low VOC wood varnish.
UO-EAGLE (LW62-20/52)	52	White Spirit	Linseed Oil	62	Aromatic	Gly./ Penta	2 Max.	Y-Z at 52%	2000 at 52%	6 Max.	Good gloss & gloss retention, Good adhesion & high water resistant, Abrasion resistance, Fast drying time.	Varnish for parquet floor, Water resistant paints, Floor Lacquers.

## Alkyd Resins Urethenated Alkyd Resins Specification

Product	Solid ± 1	Solvent Composition	Type of Oil	Oil %	Type of Isocyanate	Type of Polyol	Acid Value	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
UA-EAGLE (SW63-20/55)	55	White Spirit	Soya bean	63	Aromatic	Penta	2 Max.	Y-Z at 55%	2000 at 55%	5 Max.	Fast drying, Abrasion resistance, Light color with good yellowing resistance, Very good compatibility with the majority medium & long air drying alkyds.	Wood varnishes, Pigmented decorative enamels for interior use only, Furniture finishes, Parquet sealers, Yacht varnishes.
UA-EAGLE (SW63-5/50)	55	White Spirit	Soya bean	63	Aromatic	Penta	2 Max.	S-T at 50% & Z3 at 55%	500 at 50%	5 Max.	Fast drying, Abrasion resistance, Light color with good yellowing resistance, Very good compatibility with the majority medium & long air drying alkyds.	Wood varnishes, Pigmented decorative enamels for interior use only, Furniture finishes, Parquet sealers, Yacht varnishes.
UA-EAGLE (SW65-3/50)	60	White Spirit	Soya bean	65	Aromatic	Penta	2 Max.	Approx. L at 50%	300 at 50%	5 Max.	Good drying, Low Viscosity, Very good gloss, Very good abrasion resistance.	<b>Economical urethenated alkyd</b> for Wood varnishes, Pigmented decorative enamels for interior use only, Furniture finishes, Parquet sealers, Yacht varnishes.
UA-EAGLE (SFW60-27/60)	60	White Spirit	Sunflower Fatty Acid	60	Aliphatic	Penta	2 Max.	Z1-Z2 at 60%	2700 at 60%	4 Max.	Light color with excellent yellowing resistance more than (TW 58-36/55), Fast drying, High abrasion resistance, Good outdoor durability.	Floor lacquers & varnishes for outdoor (garden furniture), White & light shaded decorative enamels, Yacht varnishes.

## Alkyd Resins Thixotropic Alkyd Resin Specification

Product	Solid ± 1	Solvent Composition	Type of Oil	Oil %	PA %	Type of Polyol	Acid Value	Gel Strength	Color Gardner	Performance	Suggested Uses
GA-EAGLE (THIX-9/50)	50	White Spirit	Sunflower or Soya bean	54	18	Penta		High	8 Max.	Non Sagging, Excellent brush ability, Good leveling and Ease of application.	Interior and exterior non drip paints, Construction paints fillers and primer.

## Alkyd Resins Treated Oils Specification

Product	Solid ± 1	Solvent Composition	Type of Oil	Oil %	PA %	Type of Polyol	Acid Value	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
TO-EAGLE (L100-36/100)	100	-	Linseed	-	-	-	15 Max.	Z2-Z3 at 100%	3600 at 100%	13 Max.	Excellent drying time, Gloss retention, Very good pigment wetting properties, Brushability & leveling.	Ready mixed paints, Improve drying & dispersion to printing inks, Especially used as raw material for putty.

## Alkyd Resins Short Oil Air Dry Alkyd Resins Specification

Product	Solid ± 1	Solvent Composition	Type of Oil	Oil %	PA %	Modifications	Type of Polyol	Acid Value	OH Content % Approx.	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
SDA-EAGLE (SX35-18/50)	60	Xylene	Sunflower or Soya bean	35	30	Chain Stopped	Penta	12 Max.	3	Y-Z at 50%	1800 at 50%	6 Max.	Chain stopped, Excellent salt spray resistance, Extremely fast dry like styrenated alkyd and Compatible with Chlorinated rubber.	Isolating varnishes & wire enamels, Corrosion resistance primers, Air drying & stoving finishes, Automotive refinishing enamels, Traffic paint, Can be used to improve the curing of NC sealer and 2K-PU matt finish for wood coating.
SDA-EAGLE (SX35-46/60)	60	Xylene	Sunflower or Soya bean	35	30	Chain Stopped	Penta	12 Max.	3	Z3-Z4 at 60%	4600 at 60%	6 Max.	Chain stopped, Excellent salt spray resistance, Extremely fast dry like styrenated alkyd and Compatible with Chlorinated rubber.	Corrosion resistance primers, Air drying & stoving finishes, Automotive refinishing enamels, Traffic paint, Can be used to improve the curing of NC sealer and 2K-PU matt finish for wood coating.
SDA-EAGLE (TX36-18/50)	50	Xylene	Low Ronistall Oil F.A.	36	26	Chain Stopped	Mixture of Polyol	12 Max.	5.2	Y-Z at 50%	1800 at 50%	6 Max.	Chain stopped, Very good abrasion & mar resistance, Extremely fast dry with good adhesion to metal substrates, Good gloss & color retention, Very good yellowing resistance.	Corrosion resistance primers, White air drying & stoving finishes, Automotive refinishing enamels, Road marking paints.
SDA-EAGLE (LX32-145/55)	55	Xylene	Linseed Oil	32	36	Chain Stopped	Penta	10 Max.	3.9	Z6 at 55%	14500 at 55%	6 Max.	Chain stopped, Excellent salt spray resistance, Extremely fast dry & through hardening, Excellent gloss retention, Very good adhesion.	Corrosion resistance primers, Air drying & stoving finishes, Excellent isolating varnish & wire enamels.
SDA-EAGLE (SX41-20/60)	60 or 70	Xylene	Sunflower or Soya bean	41	40	-	Glycerin	12 Max.	2.9	Z2 at 60%	2000 at 60%	5 Max.	Good exterior durability, Color retention & good adhesion with steel, Superior drying, Toughness & abrasion resistance, Semidrying short alkyd.	Enamel undercoat, Stoving enamel (100 °C - 140 °C), Structural steel paints, NC, lacquers, In 2K PU varnish.
SDA-EAGLE (DCX39-23/60)	60	Xylene	Dehydrated Castor Oil	39	40	-	Penta	15 Max.	-	Z at 60%	2300 at 60%	5 Max.	Non yellowing airdrying, Very good adhesion to metal, Excellent mechanical performance, Good color retention & high gloss.	Non yellowing air drying enamels & low bake enamels for white & colored, Car repair finish.

## Alkyd Resins Short Oil Non-Drying Alkyd Resins Specification

Product	Solid ± 2	Solvent Composition	Type of Oil	Oil %	PA %	Type of Polyol	Acid Value	OH Content % Approx.	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
SNDA-EAGLE (COCX35-97/60)	60	Xylene	Coconut oil	35	44	Mixture of Polyol	8 Max.	4	Z5 at 60%	9700 at 60%	3 Max.	Excellent adhesion & good gloss, Good mechanical performance, High yellowing resistance, Good hardness & adhesion.	High quality NC lacquers for furniture & motor cars, Non yellowing baking enamels.
SNDA-EAGLE (COCX32-36/60)	60 or 70	Xylene	Coconut oil	32	46	Mixture of Polyol	8 Max.	4	Z2-Z3 at 60%	3600 at 60%	3 Max.	Excellent combination of hardness, flexibility & outdoor durability in NC lacquers, Good mechanical performance, High yellowing resistance, gloss & hardness in stoving enamels and Water white resin.	High quality NC lacquers for furniture & motor cars, Non yellowing baking enamels, Tin plate varnishes, General purpose stoving enamels, Polyurethane finishes and Gives excellent gloss top coat for the 2K-PU lacquer for furniture.
SNDA-EAGLE (COCX32-97/60)	60 or 70	Xylene	Coconut oil	32	46	Mixture of Polyol	8 Max.	3.9	Z5-Z6 at 60%	9700 at 60%	3 Max.	Excellent combination of hardness, flexibility & outdoor durability in NC lacquers, Good mechanical performance, High yellowing resistance, gloss & hardness in stoving enamels and Water white resin.	High quality NC lacquers for furniture & motor cars, Non yellowing baking enamels, Tin plate varnishes, General purpose stoving enamels, Polyurethane finishes and Gives excellent gloss top coat for the 2K-PU lacquer for furniture.
SNDA-EAGLE (SFAX28-6/60)	60	Xylene	Synthetic F.A.	28	42	Mixture of Polyol	7 – 10	3	S-T at 60%	600 at 60%	3 Max.	Light color, compatible with CAB and compatible with hydroxy acrylic resin.	Two component polyurethane enamel & clear, industrial stoving enamels and acid curing finishes.
SNDA-EAGLE (SFAX28-9/60)	70	Xylene	Synthetic F.A.	28	40	Mixture of Polyol	10 Max.	4.8	V-W at 60%	900 at 60%	3 Max.	Excellent yellowing resistance & pigmented wetting properties in stoving enamels, High gloss, hardness & flexibility for PU lacquers, Excellent mechanical performance, Good color retention for NC lacquers.	Car repair finishes, cellulose nitrate finishes, Compatible with OH acrylics for automotive repair, Used for OEM enamels & industrial stoving enamels for general use (specially over print varnishes 120°C-160°C), Two component polyurethane enamels & clear, Clear pigmented acid curing finishes.
SNDA-EAGLE (CX41-46/60) (W-RC45)	60	Xylene	Castor oil	41	38	Mixture of Polyol	15 Max.	4	Z2-Z4 at 60%	4600 at 60%	6 Max.	Excellent mechanical properties, good sanding and lining properties and Excellent wood penetration to close the pores of wood, Strong enough to accept different resins & solvents on the top.	Polyurethane primers, matt and gloss finishes, stoving finishes and acid curing finishes and Excellent for the 2K-PU wood sanding sealer.
SNDA-EAGLE (VX30-27/50) (W-B1)	55	Xylene	Vegetable fatty acids	30	32	Penta	10 Max.	2.8	Z-Z2 at 50%	2700 at 50%	5 Max.	Excellent hardness, Excellent film leveling and solvent release properties, Good sanding properties.	Urethane two-components matt finishes and sealers with easy sandability, NC sealers and matt top coat.

## Alkyd Resins Copolymerized Alkyd Resin Specification

Product	Solid ± 2	Solvent Composition	Type of Oil	Oil %	PA %	Modifications	Type of Polyol	Acid Value	Monomer content %	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
CA-EAGLE (S-SX30-46/55)	55	Xylene	Soya bean	30	20	Styrene	Glycerin	10 Max.	40	Z2-Z3 at 55%	4600 at 55%	5 Max.	Very short drying time, Good filling properties.	Hammer finishes, Industrial spraying enamels, Fast drying primers & varnishes.
CA-EAGLE(S-SX30-350/55)	55	Xylene	Sunflower or Soya bean	30	22	Styrene	Glycerin	12 Max.	40	Z6-Z8 at 55%	35000 at 55%	5 Max.	Very high viscosity and very fast drying time.	Hammer finishes, Industrial enamels and fast drying primers and varnishes.
CA-EAGLE (S-VX38-2/50)	70	Xylene	Vegetable	38	12	Styrene	Glycerin	12 Max.	40	F-L at 50%	200 at 50%	6 Max.	Very short drying time, Good filling properties, Good recoat ability.	Hammer finishes, Industrial spraying enamels, Fast drying primers & varnishes.
CA-EAGLE (VT-TW31-9/50)	70	White spirit	Low rosin tall oil fatty acid	31	18	Vinyl toluene	Glycerin	12 Max.	41	Z6 at 70% & V at 50%	900 at 50%	5 Max.	Very short drying time, Very good hardness & gloss, Yellowing resistance.	Hammer finishes, Industrial top coat paints, Anti corrosive primers.
CA-EAGLE (A-SX29-9/60)	60	Xylene	Soya bean	29	18	Acrylics	Glycerin	10 Max.	40	V at 60%	900 at 60%	5 Max.	Very short drying time, Very good hardness & gloss, Very good pigment wetting properties, Good adhesion to tinplates/aluminium.	Exterior can coating & collapsible tube lacquers, Roller coating, Toy enamels.
CA-EAGLE (S-LW65-4/60)	60	White spirit	Linseed stand oil	65	-	Styrene	-	3 Max.	35	L-S at 60%	400 at 60%	8 Max.	Excellent brushability & good leafing aluminium effect (Hazy).	Aluminium & Bronze paints for industrial conditions.

## Alkyd Resins Rosin Modified Alkyd Resin Specification

Product	Solid ± 1	Solvent Composition	Type of Oil	Oil %	PA %	Modifications	Type of Polyol	Acid Value	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
RMA-EAGLE(LW44-7/50)	50	White Spirit	Linseed	44	33	Rosin	Penta	15 Max.	T-V at 50%	700 at 50%	16 Max.	Excellent Hardness, Excellent drying time, Excellent gloss & gloss retention, for all types of industrial finishes with Excellent Hardness.	Furniture enamels, putties and primers, Industrial finishes.
RMA-EAGLE(LTUX34-80/60)	60	Xylene	Linseed / Tung oil	34	37	Phenolic/Rosin	Penta	20 Max.	Z4-Z5 at 60%	8000 at 60%	9 Max.	Fast drying time, good adhesion, corrosion resistance and water resistance.	Air drying Primers and fillers, one coat system for metal.





Type of Use

- BF Body Filler
- WF Wood Filler
- GP General Purpose
- SS Solid Surface



Viscosity in D Poise at the specified solid content



Specified Solid content

# Unsaturated Polyester Resins

Unsaturated Polyester Resins

**GP 25-65**

Unsaturated Polyester Resin for General Purposes applications of Viscosity 25 D poise at 65% solid content

# Unsaturated Polyester Resins

Product	Solid ± 2	Solvent Composition	Gel Time (Min)	Cure Time (Min)	Peak Exothermic °C	Acid Value	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Performance	Suggested Uses
GP 25-65	65	Styrene monomer	8-14	16-25	125±10	20 Max.	J-L at 65%	250 at 65%	3 Max.	<b>High chemical resistance</b> , Rigid films, Good curing properties, Wax Free, Non accelerated.	Glass fibre for general purpose applications where economy in use is a major consideration and both hydrolytic stability and structural performance are not critical. GP-2.5/65 may be used in all general jobbing applications such as telephone booths, kiosks, non-structural cladding etc.
GP 30-67	67	Styrene monomer	7-15	15-25	160±10	20 Max.	J-L at 67%	300 at 67%	3 Max.	Rigid films, Good curing properties.	Glass fibre laminates for general purpose applications where economy in use is a major consideration and both hydrolytic stability and structural performance are not critical. may be used in all general jobbing applications such as telephone booths, kiosks, non-structural cladding etc.
WF 230-75	75	Styrene monomer	3-6	8-12	160±10	18 Max.	Y-Z at 75%	2300 at 75%	3 Max.	Rigid films, Good curing properties, Wax Free, Good sanding properties and Low Odour.	Good wood finish varnish, Sanding sealers for wood where rapid and easy sanding characteristics are required.
WF 45-70	75	Styrene monomer	3-6	8-12	150±10	20 Max.	Y-Z at 75%	2500 at 75%	3 Max.	Rigid films, Good sanding properties, Rapid Curing & fast dry film and Low Odour.	Superior & excellent wood finish varnish, Sanding sealers for wood where rapid and easy sanding characteristics are required.
BF 40-68	68	Styrene monomer	3-6	11-15	130±10	18 Max.	N-Q at 68%	400 at 68%	8 Max.	Amine Accelerated unsaturated Polyester, with medium flexibility, medium reactivity, excellent dry sandability & do not rapidly clog sanding paper.	It is ideal as sole highly filled binder for car body filler, accepts higher filler loads & show excellent storage stability of derived pastes.
BF 37-65	65	Styrene monomer	5-8	14-18	170±10	16 Max.	N-P at 65%	370 at 65%	8 Max.	Amine Accelerated unsaturated polyester, Medium rigidity, High reactivity and low viscosity, Easy sanding and good adhesion on clean surface metal.	Standard body putty (filler) compounds, Light weight body putty (filler) compounds.
BF 36-68	68	Styrene monomer	3-6	11-15	120±10	18 Max.	N-Q at 68%	350 at 68%	8 Max.	Excellent sandability, Good curing properties, Wax Free, Amine accelerated unsaturated polyester.	Standard body putty (filler) Compounds, Light weight body putty (filler) Compounds, Putties based on it achieve excellent dry sand ability & do not rapidly clog sanding paper.
SS 70-70	70	Styrene monomer	5-7	12-16	170±10	20 Max.	U-V at 70%	700 at 70%	8 Max.	Amine Accelerated unsaturated polyester, High rigidity, High reactivity and Medium viscosity.	Stopper for marble, Adhesive for marble, Binder for highly filled knifing fillers.
BU 130-70	70	Styrene monomer	5-10	15-25	160±20	40 Max.	V-X at 70%	1200 - 1300 at 70%	1 Max.	Excellent mechanical properties, Very good scratch resistance, Ideal combination between hardness and flexibility, High translucency and Non-accelerated.	Manufacture of buttons by centrifugation and casting rods procedures.
BU 200-70	70	Styrene monomer	5-12	10-20	160±20	40 Max.	Y-Z1 at 70%	1900 - 2600 at 70%	—	Excellent mechanical properties, Very bright with bluish colour, Medium reactivity, High viscosity, Non-accelerated.	Manufacture of button sheets by centrifugal casting method.
PIP 32-65	65	Styrene monomer	8-12	16-24	180±20	35 Max.	J-L at 65%	300 - 400 at 65%	3 Max.	Excellent mechanical properties, Very good rigidity, Excellent chemicals resistance, Non-thixotropic and Non-accelerated.	Glass fiber laminates for general purpose applications such as pipes industry. Its good chemical resistance make the resin suitable for manufacture of tanks and containers for fuels.

\* Cure Characteristics are those obtained using 2% Cobalt Octoate (1% cobalt metal) and 2% MEK Peroxide (50%) in 100 grams of resin previously stabilized at 25°C

\*\* Cure Characteristics are those obtained using 2% of Benzoyl Peroxide 50% in 100 gram of resin

\*\*\* Acid Value on delivery form in mg KOH / gm

# Acrylic Resins

Acrylic Polyol  
 Thermoplastic Acrylic  
 Thermoset Acrylic

## Acrylic Resins How To Read Our Codes?



Kind of Resin

AC Acrylic Resin



Type of Acrylic Resin

OH Hydroxy  
 TS Thermosetting  
 TP Thermoplastic acrylic resin



OH Content (in case of Hydroxy Resin)



Viscosity in Piose at the specified solid content



Type of solvent

X Xylene  
 BA Butyle Acetate  
 M Different types of mixed solvents



Specified solid content

### AC-EAGLE(OH 66-28X60)

Hydroxy Acrylic Resin with OH Content 66 (2% OH) diluted in Xylene of viscocity 28 poise at 60% Solid content.

# Acrylic Resins Acrylic Polyol Specification

Product	Solid ± 2	Type of Solvent	Acid value (per solid)	Viscosity Gardner @25 °C	Color Hazen	OH %	Performance	Suggested Uses
AC-EAGLE(OH33-45XA50)	50	Butyle Acetate / Xylene	5 Max.	Z2-Z4	50 Max.	1%	Excelent fast drying, low hydroxyl percent and very good mechanical properties.	Very fast-drying two-component polyurethane coating systems for the industrial nishing of furniture and general industrial coatings.
AC-EAGLE(OH60-20X55)	55	Xylene	5-10	Y-Z	50 Max.	1.8%	Very fast drying, Very good durability and weathering resistance, Very good through hardness and chemical resistance, Very good mechanical and adhesion properties.	Two component car repair top coat-Machine lacquers- Protective coat-With its good adhesion and mechanical properties it works on difficult metals like galvanized steel and aluminium.
AC-EAGLE(OH66-20BA50)	60	Butyle Acetate	5-10	X-Z @ 50%	50 Max.	2%	Excelent fast drying , excellent mechanical properties and adhesion , very good weathering and chemical resistance -compatible with CAB.	Two components car repair top coat,machine lacquer and wood varnish.
AC-EAGLE(OH66-28X60)	60	Xylene	5-10	X-Z	50 Max.	2%	Very fast drying, Very good durability and weathering resistance, Very good through hardness and chemical resistance, Very good mechanical and adhesion properties.	Two component car repair top coat-Machine lacquers- Protective coat-With its good adhesion and mechanical properties it works on difficult metals like galvanized steel and aluminium.
AC-EAGLE(OH90-30X60)	60	Xylene	5-10	Z1-Z2	50 Max.	2.7%	High gloss, good mechanical properties and good adhesion to metals and plastic substrates.	In combination with polyisocyanates for air-drying as well as forced drying primers and topcoats in industrial applications.
AC-EAGLE(OH92-140X60)	60	Xylene	5-10	Z5-Z6	50 Max.	2.8%	Very high viscosity,high gloss in two packs system and excellent mechanical properties.	Two components primer, pigmented top coat and clear varnish.
AC-EAGLE(OH100-25BA70)	70	Butyle Acetate	5-10	Z-Z1	50 Max.	3%	High gloss in two packs system - Excellent mechanical properties - Excellent out door durability and chemical resistance.	Automotive refinishing (topcoat and clear coats), Primer, Pigmented top coat and clear varnishes for two lacquer finishes, Top-Coats for off-shores and cranes.
AC-EAGLE(OH100-18BA60)	60	Butyle Acetate	5-10	X-Z	50 Max.	3%	High gloss in two packs system - Excellent mechanical properties - Excellent out door durability and chemical resistance.	Automotive refinishing (topcoat and clear coats), Primer, Pigmented top coat and clear varnishes for two lacquer finishes, Top-Coats for off-shores and cranes.
AC-EAGLE(OH132-20X50)	50	Xylene	4-12	W-Y	50 Max.	4%	High gloss in two packs system - Excellent mechanical properties - Excellent out door durability and chemical resistance.	Automotive refinishing (topcoat and clear coats), Primer, Pigmented top coat and clear varnishes for two lacquer finishes, Top-Coats for off-shores and cranes.
AC-EAGLE(OH138-40BA65)	65	Butyle Acetate	5-10	Z-Z3	50 Max.	4.2%	High gloss in two packs system - Excellent mechanical properties - Excellent out door durability and chemical resistance.	Automotive refinishing (topcoat and clear coats), Primer, Pigmented top coat and clear varnishes for two lacquer finishes, Top-Coats for off-shores and cranes.
AC-EAGLE(OH138-90BA70)	70	Butyle Acetate	5-10	Z4-Z6	50 Max.	4.2%	High gloss in two packs system - Excellent mechanical properties - Excellent out door durability and chemical resistance.	Automotive refinishing (topcoat and clear coats), Primer, Pigmented top coat and clear varnishes for two lacquer finishes, Top-Coats for off-shores and cranes.
AC-EAGLE(OH138-50BA70)	70	Butyle Acetate	5-10	Z3	50 Max.	4.2%	High gloss in two packs system - Excellent mechanical properties - Excellent out door durability and chemical resistance.	Automotive refinishing (topcoat and clear coats), Primer, Pigmented top coat and clear varnishes for two lacquer finishes, Top-Coats for off-shores and cranes.
AC-EAGLE(OH148-27M60)	60	Mixed of solvents	5-10	Z-Z1	50 Max.	4.5%	High gloss in two packs system - Excellent mechanical properties - Excellent out door durability and chemical resistance.	Automotive refinishing (topcoat and clear coats), Primer, Pigmented top coat and clear varnishes for two lacquer finishes, Top-Coats for off-shores and cranes.
AC-EAGLE(OH148-95BA70)	70	Butyle Acetate	5-10	Z4-Z5	50 Max.	4.5%	Forced drying two pack - medium high solids systems with high gloss- excellent mechanical properties- excellent chemical resistance.	Good outdoor stability for automotive refinishes, air-drying and forced drying two pack high-solids systems.



# Acrylic Resins Thermoplastic Acrylic Specification

Product	Solid ± 2	Type of Solvent	Acid value (per solid)	Viscosity Gardner @25 °C	Color Hazen	Performance	Suggested Uses
AC-EAGLE(TP-60T60)	60	Toluene	5-10	Z4-Z5	50 Max.	High Viscosity-Excellent drying - Very good adhesion on asphalt, concrete and stones - Very good abrasion resistance - Very good alkali and humidity resistance - Very good exterior and interior properties-Excellent Hardness.	Road marking paints high quality: The Paints manufactured with this resin presents Very good adhesion on all materials used in the horizontal marking of streets, highways, etc - also offer good adhesion to the glass beads for the light reflectance paint and varnishes for facades, swimming - pools, garages, floor marking, etc. Recommended for hot weather countries.
AC-EAGLE(TP-60X60)	60	Xylene	5-10	Z4-Z5	50 Max.	High viscosity-fast drying -very good adhesion on asphalt, concrete and stones.	Road marking paints high quality: The Paints manufactured with this resin presents Very good adhesion on all materials used in the horizontal marking of streets, highways, etc - also offer good adhesion to the glass beads for the light reflectance paint and varnishes for facades, swimming - pools, garages, floor marking, etc. Recommended for hot weather countries.
AC-EAGLE(TP-35X60)	60	Xylene	5-10	Z1-Z3	50 Max.	Very fast physical drying - Very good adhesion on asphalt, concrete and stones - Very good abrasion resistance - Very good alkali and humidity resistance - Very good exterior and interior properties.	Road marking paints high quality: The Paints manufactured with this resin presents Very good adhesion on all materials used in the horizontal marking of streets, highways, etc - also offer good adhesion to the glass beads for the light reflectance paint and varnishes for facades, swimming - pools, garages, floor marking, etc. Recommended for hot weather countries.
AC-EAGLE(TP-19T50)	50	Toluene	1 Max.	Y-Z	50 Max.	Medium viscosity - very good drying. Excellent for road marking - compatible with LPG and suitable to spray application.	Spray application , aluminium paint due to its lower acid value and consider general purpose thermoplastic acrylic.
AC-EAGLE(TP-100T60)	60	Toluene	5-10	Z5-Z6	50 Max.	Very high viscosity-very good drying -very good adhesion on asphalt, concrete and stones.	Road marking paints high quality: The Paints manufactured with this resin presents Very good adhesion on all materials used in the horizontal marking of streets, highways, etc - also offer good adhesion to the glass beads for the light reflectance paint and varnishes for facades, swimming - pools, garages, floor marking, etc. Recommended for hot weather countries.
AC-EAGLE(TP-46X55)	55	Xylene	5-10	Z2-Z4	50 Max.	Medium viscosity-very good drying -very good adhesion on plastic substrate.	General purpose masonry and decorative application and excellent for plastic substrate.
AC-EAGLE(TP-50M45)	45	Ethyl Acetate-MIBK	5 Max.	Z3-Z4	50 Max.	High viscosity-rapid drying-very good adhesion on plastic substrate.	Very fast drying general purpose masonry and decorative application and excellent for plastic substrate.
AC-EAGLE(TP-50M50)	50	Xylene/Solvesso100 1:1	5 Max.	Z2-Z4	50 Max.	Medium viscosity-very good drying -very good adhesion on Metal substrate and concrete , suitable for wet to wet application.	Pigmented and transparent paints for metal.
AC-EAGLE(TP-22M50)	50	Xylene-Solvesso100	5-10	X-Z1	50 Max.	Medium viscosity - very good drying - produces a durable and flexible clear and hard film.	Wet on wet application for the manufacture of new concrete roof tiles with hard film and also masonry paints
AC-EAGLE(TP-98T50)	50	Toluene	5-10	Z4-Z6	50 Max.	Outstanding exterior durability and color retention - compatible with CAB and N.C.	Fast drying clearcoat for car repair and refinish topcoats for the automotive industry.
AC-EAGLE(TP-10XBA35)	35	Xylene-Butyl Acetate	5 Max.	V-X	50 Max.	Outstanding exterior durability and color retention - compatible with CAB and N.C.	Fast drying clearcoat for car repair and refinish topcoats for the automotive industry.
AC-EAGLE(TP-40W60)	60	White Spirit	5 Max.	Z2-Z4	100 Max.	Fast Drying, Good permanent flexibility and Excellent insulating properties.	Aliphatic solvent based low viscosity primers with very good penetration.
AC-EAGLE(TP-2W40)	60	White Spirit	5 Max.	H-L at 40%	100 Max.	Very fast physical drying - Very good adhesion on asphalt, concrete and stones - Very good abrasion resistance - Very good alkali and humidity resistance - Very good exterior and interior properties.	Used as binder for cement facing substrates,or Low viscosity primers with very good penetration and recommended for stone varnishes in aliphatic solvent with excellent drying and hardness.

# Acrylic Resins

## Thermoset Acrylic Specification

Product	Solid ± 1	Type of Solvent	Acid value (per solid)	Viscosity Gardner @25 °C	Color Hazen	Performance	Suggested Uses
AC-EAGLE(TS-20M55)	58	Mixed of Solvents	6-17	X-Z	50 Max.	Good Sterilization resistance – Good flow – Good acceptance of UV curable printing ink – Deep drawing.	Can Coating, Two piece can base coating, external lines, Twist off lids, Crown and screw caps.
AC-EAGLE(TS-20NB60)	60	Solvent Naphtha 150ND/ Butanol ; 2/1	8-13	Y-Z	150 Max.	Thermosetting Acrylic Acrylamide resins. Good flexibility and Good adhesion – In combination with Epoxy Resin 3% (BADGE) epoxyd equivalent 450-500.	Can coating : base coats with excellent drawing properties.
AC-EAGLE(TS-18NB50)	50	Solvent Naphtha 150ND/ Butanol ; 2/1	7-12	X-Y	100 Max.	Thermosetting Acrylic Acrylamide resins. Good flexibility and Good adhesion – In combination with Epoxy Resin 5% (BADGE) epoxyd equivalent 450-500.	Can coating : base coats with good drawing, sterilisation and blocking properties.
AC-EAGLE(TS-10NB50)	50	Solvent Naphtha 150ND/ Butanol ; 1/1	13-18	U-W	100 Max.	Thermosetting Acrylic Acrylamide resins. In combination with Epoxy Resin 10% (BADGE) epoxyd equivalent 450-500. Good balance hardness and flexibility Good chemical resistance.	Can coating : base coats with good sterilisation properties Over print varnishes (OPV), high gloss on wet on wet appliances with good sterilisation properties.
AC-EAGLE(TS-8XB50)	50	Xylene / Butanol ; 1/1	10-17	U-W	250 Max.	Thermosetting Acrylic Acrylamide resins. Flexibility,Detergent resistance.,High build and Adhesion.	General industry : stoving enamels for domestic appliances.
AC-EAGLE(TS-10XB50)	50	Xylene / Butanol ; 1/1	10-18	V-X	150 Max.	Thermosetting hydroxyl acrylic resin. Weathering resistance, Scratch resistance Flexibility and Compatibility with CAB.	Automotive : Metallic base coat and clear transparent top coats. General industry : stoving enamels.

# Saturated Polyester (Liquid Form)

Saturated Polyester

## Saturated Polyester How To Read Our Codes?



Kind of Resin

SP Saturated polyester



Type of Saturated Polyester Resin

TS Thermosetting



Viscosity in Poise at the specified solid content



Type of solvent

IP Isophorone  
N Solvent Naphtha 150 ND  
BG Butyl glycol  
D Diacetone alcohol  
S Solvent Naphtha 200 ND



Specified solid content

**SP-EAGLE(TS-42N55)**

Thermoset Saturated Polyester of viscosity 42 poise diluted in solvent Naphtha 150ND at 55% solid content

## Saturated Polyester (Liquid Form)

Product	Solid ± 2	Type of Solvent	Acid Value	OH %	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Color Gardner	Appearance	Performance	Suggested Uses
SP-EAGLE (TS-25NBG50)	50	Solvent Naphtha 150ND/ butyl glycol; 4/1	5 Max.	40	Y-Z at 50%	2500 at 50%	3 Max.	Clear	Good Hardness, Flexibility, Sterilisation resistance, Outdoor durability and Reactivity.	Can coating : white base coat and overprint varnish. Coil coating : outdoor durable coatings.
SP-EAGLE (TS-40DN50)	50	Diactone alcohol/ Solvent Naphtha 150ND , 7/3	5 Max.	40	Z2-Z3 at 50%	4000 at 50%	3 Max.	Clear	Good Hardness, Flexibility, Sterilisation resistance, Outdoor durability and Reactivity.	Can coating : white base coat and overprint varnish. Coil coating : outdoor durable coatings.
SP-EAGLE (TS-42N55)	55	Solvent Naphtha 150ND	5 Max.	26	Z2-Z3 at 55%	4200 at 55%	3 Max.	Clear	Good Hardness, fast Drying and Deep drawing properties.	Coil coating : domestic appliances, indoor use. Can coating : general purpose, twist off closures.
SP-EAGLE (TS-140N60)	60	Solvent Naphtha 150ND	10 Max.	30	Z5-Z6 at 60%	1500 at 60%	2 Max.	Clear	Very Good Flexibility.(deep drawn,cold crush).	Tube coatings and White base coats.
SP-EAGLE (TS-33NBG65)	65	Solvent Naphtha 150ND/ butyl glycol 4/1	8 Max.	85	Z1-Z2 at 65%	3300 at 65%	3 Max.	Clear	Good Outdoor durability,High Solids content, Good Adhesion and excellent Weathering resistance.	General industry stoving enamels. Coil coating : top coats for,interior and exterior use. Can coating : white base coats.
SP-EAGLE (TS-55NIP50)	50	Solvent Naphtha 150ND/ Isophorone 3/1	10 Max.	10	Z3-Z4 at 50%	5500 at 50%	5 Max.	Clear	Reactivity,Adhesion to aluminium, Sterilisation resistance and Good Flexibility.	Can coating : Aerosol cans and Collapsible tube coatings.
SP-EAGLE (TS-33NBG60)	60	Solvent Naphtha 150ND/ butyl glycol 3/1	8 Max.	52	Z1-Z2 at 60%	3300 at 60%	3 Max.	Clear	Sterilisation resistance Levelling.	Can coating : white base coats. Can coating : general purpose coatings.
SP-EAGLE (TS-65NS60)	60	Solvent Naphtha 150ND/ Solvent Naphtha 200ND ;1/1	5 Max.	26	Z4 at 60%	6500 at 60%	5 Max.	Clear	Good Flexibility and Adhesion to HDG (hot dipped galvanised steel) and aluminium.	Can coating : primers and top coats.
SP-EAGLE (TS-50M50)	50	Solvent Naphtha 150ND/ Solvent Naphtha 200ND/ Dowanol PM ;32/10/8	10 Max.	10	Z3-Z4 at 50%	5000 at 50%	5 Max.	Clear	Reactivity,Adhesion to aluminium, Sterilisation resistance and Good Flexibility.	Can coating : Aerosol cans and Collapsible tube coatings.



# Epoxy Ester & Amino Resins

Epoxy Ester Resins  
Amino Resins

## Epoxy Ester & Amino Resins How To Read Our Codes?



Kind of Resin

EE Epoxy Ester  
AR Amino Resin



Kind of Fatty Acid / Amino Resin

DC Dehydrated Castor Oil Fatty Acid  
COC Coconut Fatty Acid

MF Melamine formaldehyde  
UF Urea formaldehyde  
BF Benzoguanamine formaldehyde



Viscosity in Piose at the specified solid content



Type of solvent

X Xylene  
N Solvent Naphtha 150 ND  
BG Butyl Glycol

I Isobutanol  
B Butanol



Specified solid content

### EE-EAGLE(DC-6X50)

Epoxy Ester resin based on Dehydrated Castor Oil of viscosity 6 poise diluted in Xylene at 50% solid content

## Epoxy Ester Resins

Product	Solid ± 2	Type of Solvent	Acid Value	Viscosity Gardner @25 °C	Viscosity cP @25 °C	OH %	Performance	Suggested Uses
EE-EAGLE(DC-25N8G50)	50	Solvent Naphtha 150ND/butyl glycol; 4/1	4 Max.	Z-Z1 at 50%	2500 at 50%	4 Max.	Good Flexibility, Good adhesion and Good hardness.	Can coating : Overprint varnish. Can coating : Collapsible tubes enamels.
EE-EAGLE(DC-6X50)	50	Xylene	4 Max.	U - V at 50%	600 at 50%	4 Max.	Good Adhesion, Chemical resistance and Good Flexibility.	General Industrial : Air drying and stoving primers and protective coatings. Can coatings : Overprint varnishes and collapsible tube enamels. Automotive : Primer and fillers.
EE-EAGLE(COC-38N8G55)	55	Solvent Naphtha 150ND/butyl glycol; 3/2	4 Max.	Z2 - Z3 at 55%	3800 at 55%	4 Max.	Yellowing resistance, Good hardness and Good Flexibility.	Can coating : Non-yellowing Overprint varnish.

## Amino Resins

Product	Solid ± 2	Type of Solvent	Acid Value	Viscosity Gardner @25 °C	Viscosity cP @25 °C	Free Formaldehyde %	Color Hazen	Appearance	Performance	Suggested Uses
AR-EAGLE(MF-8IX55)	55	Isobutanol/Xylene 10/1	1.5 Max.	U-V at 55%	800 at 55%	0.7	100 Max.	Clear	Reactivity, Compatibility and Overbake resistance.	Stoving enamels general purpose. Automotive : primers and top coats.
AR-EAGLE(MF-110B70)	70	Butanol	1 Max.	Z5 at 70%	11000 at 70%	0.8	100 Max.	Clear	Outdoor durability, Flow and Reactivity.	Automotive : top coats and clear coats. General industry : stoving enamels.
AR-EAGLE(MF-140B85)	85	Butanol	1.5 Max.	Z5-Z6 at 85%	14000 at 85%	0.3	100 Max.	Clear	High Solids content, Good Gloss level and Compatibility.	Can coating : exterior coatings. Coil coating : low PMT curing. Automotive : top coats and clear coats.
AR-EAGLE(BF-160NB77)	77	Solvent Naphtha 150ND / n-Butanol ; 2/1	2 Max.	Z6 at 77%	16000 at 77%	0.5	100 Max.	Clear	Mechanical properties, Sterilisation resistance and Low/Medium reactivity.	Can Coating interior and exterior.
AR-EAGLE(BF-5B70)	70	Butanol	2 Max.	S at 70%	500 at 70%	0.7	100 Max.	Clear	Sterilisation resistance, Reactivity and Mechanical properties.	Can coating : interior and exterior. Automotive : primer surfacers.
AR-EAGLE(UF-6BX63)	63	Butanol/Xylene; 2/1	3 Max.	T-U at 63%	600 at 63%	-	100 Max.	Clear/Hazy	Compatibility with epoxy resins and Sterilisation resistance.	Can coating : exterior and interior coatings. General industrial : acid curing and stoving enamels.

# Water Based Emulsion Resins & Additives

- Homopolymer Emulsion Resins
- Copolymer & Terpolymer Emulsion Resins
- Styrene Acrylic Emulsion Resins
- Pure Acrylic Emulsion Resins
- Dispersing Agents
- Emulsifying Resin

## Water Based Emulsion Resins & Additives How To Read Our Codes?



### Water Based Emulsion Resins

- Kind of Resin
 

H	Homopolymers	C	Copolymers
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- Type of Monomers
 

VV	Vam Versatate	SA	Styrene Acrylic
VA	Vam Acrylic Acid Ester	PA	Acrylic Acid Ester
VVA	Vam, Versatate & Acrylic Ester (Terpolymer)	VM	Vinyl acetate maleinate ester
- Viscosity in Piose at the specified solid content
- Specified solid content

### Additives

- Kind of Resin
 

W	Wetting	D	Dispersing
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- Type of Salt
 

SS	Sodium Salt	AS	Ammonium Salt
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- Viscosity in Piose at the specified solid content
- Active content

#### **C-EAGLE(VV36/50)**

Copolymer emulsion resin based on Vam Versatate of Viscosity 36 poise at 50% solid content.

Product	Monomers	Stabilizer	Min. Film Forming Temp	Particle Size Microns	PH at 23 °C	Density at 23 °C	* Viscosity cP at 23 °C	Total Solids %	Suggested Uses
H-EAGLE(120/50)	Vam	Polyvinyl Alcohol	4 °c	0.1 - 0.5	2.8 - 3.6	1.08 Kg/L	9000-15000	50±1%	Water resistant emulsion for manufacture of wood glues according to DIN EN 204 D3.
H-EAGLE(180/50)	Vam	Polyvinyl Alcohol	3 °c	0.2 - 1.2	6 - 8	1.07 Kg/L	12000-24000	50±1%	Suitable for the manufacture of fast-setting wood glues.
H-EAGLE(310/40)	Vam	Polyvinyl Alcohol	15 °c	0.4 - 2	3 - 5	1.03 Kg/L	20000-50000	40±1%	For economic Wood glue, Paper Adhesive, Floor, wall, Ceiling Adhesives, Ready to use adhesive, Medium viscosity, Clear film.
H-EAGLE(360/60)	Vam	Polyvinyl Alcohol	14 °c	0.2 - 1.2	4 - 6	1.1 Kg/L	25000-40000	60±1%	Fast Setting wood glue, Paper Adhesive, Fast Setting machine Applied adhesives, cigarettes adhesives.
H-EAGLE(390/60)	Vam	Polyvinyl Alcohol	14 °c	0.2 - 1.2	4 - 6	1.1 Kg/L	25000-40000	60±1%	Suitable for fast setting wood glues e.g. adhesive for edge bonding and laminations of Formica to chipboard and joinery glues.
H-EAGLE(400/50)	Vam	Polyvinyl Alcohol	13 °c	0.4 - 2	4 - 5	1.07 Kg/L	40000±10000	50±1%	High heat Resistant fast Setting wood glue, Joinery glue, Emulsion putty.
H-EAGLE(480/50)	Vam	Polyvinyl Alcohol	15 °c	0.4 - 2	5 - 7	1.09 Kg/L	60000±10000	50±1%	Top quality Wood glue, Paper Adhesive, Floor, wall, ceiling Adhesives- used to formulate various qualities of adhesives.
H-EAGLE(510/50)	Vam	Polyvinyl Alcohol	12 °c	0.4 - 2	4 - 6	1.09 Kg/L	60000±10000	50±1%	Wood glues, Paper adhesives, Floor, wall and ceiling adhesives, Suitable for the manufacture of wood glues for <b>Hard Wood</b> .
H-EAGLE(600/35)	Vam	Polyvinyl Alcohol	13 °c	0.4 - 2	3 - 5	1.03 Kg/L	40000-80000	35±1%	Wood glues, Paper adhesives, Floor, wall and ceiling adhesives.
H-EAGLE(850/50)	Vam	Polyvinyl Alcohol	9 °c	0.4 - 3	3 - 5	1.07 Kg/L	60000-90000	50±2%	Water Resistant General Purpose Wood glues, Paper adhesives, Floor, wall ceiling adhesives, and suitable for the manufacture of Emulsion Putty.
**HP-EAGLE(355/54)	Vam	Polyvinyl Alcohol/ Plasticized	0 °c	0.4 - 2	3 - 4	1.05 Kg/L	30000±10000	54±1%	Paper Adhesive, Adhesives for book binding, Clear film.
**HP-EAGLE(500/50)	Vam	Polyvinyl Alcohol/ Plasticized	7 °c	0.4 - 2	4 - 6	1.09 Kg/L	55000±10000	50±1%	Wood glues, Paper adhesives, Floor, Wall and ceiling adhesives, Clear film.
**HP-EAGLE(900/45)	Vam	Polyvinyl Alcohol/ Plasticized	6 °c	0.4 - 2	3 - 5	1.06 Kg/L	80000-120000	45±1%	For economic Wood glue, Paper Adhesive, Floor, wall, ceiling Adhesives- ready to use adhesive, High viscosity, Clear film.
**HP-EAGLE(950/50)	Vam	Polyvinyl Alcohol	8 °c	0.4 - 2	4 - 7	1.07 Kg/L	80000-120000	50±1%	For economic Wood glue, Paper Adhesive, Floor, wall, Ceiling Adhesives, ready to use adhesive, high viscosity high solid, Clear film.



Product	Monomers	Stabilizer	Min. Film Forming Temp	Particle Size Microns	PH at 23 °C	Density at 23 °C	* Viscosity cP at 23 °C	Total Solids %	Suggested Uses
C-EAGLE(VV17/50)	Vam Versatate	Surfactants	12 °c	0.3	4 - 5	1.04 Kg/L	3000-6000	50±1%	Very high Pigment Binding characteristic for matt, semi-gloss, Vinyl Silk decorative Paints, UV resistant Exterior Paints. It is recommended for the formulation of exterior decorative paints. <b>APEO FREE.</b>
C-EAGLE(VV19/55)	Vam Versatate	Surfactants	14 °c	0.3	4 - 5	1.06 Kg/L	500-3000	55±1%	Gloss paint, Sheen paint, Deep shade paint, Roof paint, Etch primers, in high durability exterior and interior paint and textured coatings. It is recommended for the formulation of exterior decorative paints. <b>APEO FREE.</b>
C-EAGLE(VV20/50)	Vam Versatate	Surfactants	12 °c	0.3	4 - 5	1.06 Kg/L	2000-4000	50±1%	Economic binder for Sheen Paints, Silk Vinyl Paints, Exterior & Interior Paints and Textured coating.
C-EAGLE (VV35/50)	Vam Versatate	Surfactants	12 °c	0.3	4-5	1.04 Kg/L	500-3000	50±1%	Very high Pigment Binding characteristic for matt, semi gloss, Vinyl Silk decorative Paints, UV resistant Exterior Paints.
C-EAGLE(VV36/50)	Vam Versatate	Surfactants	10 °c	0.3	4 - 5	1.04 Kg/L	3000-6000	50±1%	Very high Pigment Binding characteristic in a wide PVC range for matt, Vinyl Silk decorative Paints, UV resistant Exterior Paints.
C-EAGLE(VV37/50)	Vam Versatate	Surfactants	12 °c	0.3	4 - 5	1.04 Kg/L	3000-6000	50±1%	Very high Pigment Binding characteristic in a wide PVC range for matt, Vinyl Silk decorative Paints, UV resistant Exterior Paints.
C-EAGLE(VV44/50)	Vam Versatate	Surfactants	8 °c	0.3	4 - 5	1.04 Kg/L	4000-8000	50±1%	Gloss paint ,Sheen paint ,Deep shade paint ,Roof paint ,Etch primers ,Both exterior and interior paint and textured coatings. C - EAGLE (VV 44/50) is specially designed to offer very high Pigment Binding Power in a wide PVC range.
C-EAGLE(VV50/55)	Vam Versatate	Surfactants	14 °c	0.4	4 - 5	1.07 Kg/L	4000-6000	55±1%	Binder for high quality exterior & interior Coatings outstanding long term durability and flexibility.
C-EAGLE(VV52/58)	Vam Versatate	Surfactants	12 °c	0.4	4 - 6	1.08 Kg/L	2000-6000	58±1%	Thick coatings and silk or gloss paints , texured coatings , roof coatings with good exibility and durability.
C-EAGLE(VA10/51)	Vam Acrylic Acid Ester	Surfactants	7 °c	0.2	4 - 5	1.08 Kg/L	1000-3000	51±1%	Sheen Paints, Deep shade Paints, Exterior & Interior Paints and Textured coating.
C-EAGLE(VA31/50)	Vam Acrylic Acid Ester	Surfactants	10 °c	0.2 - 0.5	4-6	1.06 Kg/L	2000-5000	50±1%	Suitable for most interior coatings from flat to semi gloss, textured coatings, primers and plasters. Good Scrub resistance coatings with good outdoor durability
C-EAGLE(VA51/58)	Vam Acrylic Acid Ester	Surfactants	10 °c	0.2 - 0.5	4-6	1.06 Kg/L	2000-6000	58±1%	Suitable for most interior coatings from flat to semi gloss, textured coatings, primers and plasters. Good Scrub resistance coatings with good outdoor durability
C-EAGLE(VVA25/50)	Terpolymer	Surfactants	12 °c	0.1 - 0.3	4 - 5	1.05 Kg/L	500-3000	50±1%	Semi Gloss paint, Sheen paint, Deep shade paint, Both exterior and interior paint with high PVC and textured coating.
C-EAGLE(VVA23/50)	Terpolymer	Surfactants	12 °c	0.1 - 0.3	4 - 5	1.05 Kg/L	500-4000	50±1%	Semi Gloss paint, Sheen paint, Deep shade paint, Both exterior and interior paint with high PVC and textured coating.

## Water Based Emulsion Resins Styrene Acrylic Emulsion Resins Specification

\* Broofield Rvt, RPM 20 m-1

Product	Monomers	Stabilizer	Min. Film Forming Temp	Particle Size Microns	PH at 23 °C	Density at 23 °C	* Viscosity cP at 23 °C	Total Solids	Suggested Uses
C-EAGLE(SA5/46)	Styrene Acrylic Ester	Surfactants	17 °c	< 0.10	7.5 - 8.5	1.03 Kg/L	200-1000	46±1	Sheen Paints, Exterior & Interior Paints, high PVC Paints and sealing compounds.
C-EAGLE(SA70/50)	Styrene Acrylic Ester	Surfactants	16 °c	0.125	7 - 8.5	1.04 Kg/L	4000-9000	50±1	Gloss paints, exterior paints, high PVC interior paints, ceramic tiles adhesives, textured coatings.
C-EAGLE(SA85/50)	Styrene Acrylic Ester	Surfactants	16 °c	0.125	7 - 9	1.04 Kg/L	7000-14000	50±1	Interior paints having high scrub resistance, low dirt retention Exterior and Interior paints, Low to high PVC Paints, Cementitious coatings, Water-based sealers and saturators.
C-EAGLE(SA72/50)	Styrene Acrylic Ester	Surfactants	20 °c	< 0.125	7.5 - 9	1.04 Kg/L	4000-10000	50±1	Interior paints having Extremely high scrub resistance, low dirt retention Exterior and Interior paints, Low to high PVC Paints, Cementitious coatings, Water-based sealers and saturators.
C-EAGLE(SA65/50)	Styrene Acrylic Ester	Surfactants	0 °c	< 0.10	7.5 - 9.5	1.01 Kg/L	3000-10000	50±1	Flexible Coatings, Crack - Bridging systems, <b>Roof Coating</b> , Resin - bound Plasters and Textured Coatings, Silicate Paints and Silicate Plasters.
C-EAGLE(SA43/56)	Styrene Acrylic Ester	Surfactants	0 °c	0.2	7 - 9	1.03 Kg/L	500-4000	56±2	<b>Cement additive</b> with good flexibility & water resistance. Joint fillers and sealing compounds with good adhesion to a wide variety of substrates.

## Water Based Emulsion Resins Pure Acrylic Emulsion Resins Specification

Product	Monomers	Stabilizer	Min. Film Forming Temp	Particle Size Microns	PH at 23 °C	Density at 23 °C	* Viscosity cP at 23 °C	Total Solids	Suggested Uses
C-EAGLE(PA15/50)	Acrylic Acid Ester	Surfactants	12 °c	0.12	8 - 9	1.06 Kg/L	500-3000	50±1	Sheen Paints, Exterior Paints, Interior high PVC Paints, <b>Water Proofing Top Coatings</b> .
C-EAGLE(PA15/46)	Acrylic Acid Ester	Surfactants	12 °c	0.12	8 - 9	1.06 Kg/L	200-1000	46±1	Sheen Paints, Exterior Paints, Interior high PVC Paints, <b>Water Proofing Top Coatings</b> .
C-EAGLE(PA42/56)	Acrylic Acid Ester	Surfactants	< 0 °c	0.2	7 - 9	1.03 Kg/L	2000-6000	56±2	<b>Cement additive</b> with good flexibility & water resistance. Joint fillers and sealing compounds with good adhesion to a wide variety of substrates.
C-EAGLE(PA7/45)	Acrylic Ester	Anionic	< 0 °c	< 0.1	8 - 9	1.05 Kg/L	50-500	45±2	Modified acrylic copolymer emulsion with excellent water resistance use for wood stains , decorative paints, Industrial coatings, parquet lacquers, metal, and plastic top coats.
C-EAGLE(PA16/50)	Acrylic Acid Ester	Surfactants	16 °c	0.12	8 - 9	1.06 Kg/L	< 500	50±2	Suitable for coatings with excellent long - term durability. It also imparts excellent dirt pick - up resistance in Paints formulated with it. excellent adhesion on wide variety of Substrates such as Wood, Smooth concrete Surfaces, old chalky Painted Surfaces, etc. It also confers excellent abrasion resistance, alkali resistance and UV resistance.

## Additives Dispersing Agents Specification

Product	Appearance	Density	Solubility	PH	Non - Volatile	* Viscosity cP at 23 °C	Active Content	Performance	Suggested Uses
WD-EAGLE(SS4/40)	Dark Brownish Solution	1.25 kg/L	Soluble in water	7.5 - 9	45 ± 2	100 – 400	40%	Sheen Paints, Exterior & Interior Paints, high PVC Paints and sealing compounds.	Sheen Paints, Exterior & Interior Paints, high PVC Paints and sealing compounds.
WD-EAGLE(AS4/40)	Dark Brownish Solution	1.2 kg/L	Soluble in water	7.5 - 9	45 ± 2	100 – 400	40%	Sheen Paints, Exterior & Interior Paints, high PVC Paints and sealing compounds.	Gloss Paints, Exterior Paints, high PVC interior Paints, Ceramic tiles adhesives, Textured coating.

## Additives Emulsifying Resin Specification

Product	Appearance	Density	Solid Content	* Viscosity cP at 23 °C	Performance	Suggested Uses
ES-EAGLE 4045	Dark Brownish-Greenish color	1.25 kg/L	45±2%	100-400	High molecular weight liquid resin with excellent emulsifying action (have hydrophilic head (water lover) and hydrophobic tail (alkyd or oil lover) )to form steric stable colloidal suspension.	Additives resin 0.1-0.3 per total formulation, Very simple to apply, Better whitening, gloss, opacity and reology, Help you to pass VOC regulations, Water percent up to 50 % per total formulation.

## Specialties Pressure Sensitive Adhesives

Product	Total Solids	* Viscosity cP at 23 °C	PH	Tg °C	M.F.F.T °C	Density Kg/L	Hotsheer strength(*2)	Loop tack(*3)	Peel adhesion strength(*4)	Rolling ball tack(*5)	Suggested Uses
C-EAGLE(PA2/60)	60±2	50-300	3-5	-42°C	< 0°C	1.05	> 3 days	24	25	6	Pressure Sensitive Adhesive (PSA) for polypropelene carton sealing tapes.
C-EAGLE(PA4/50)	50±2	100-500	7-8.5	-16°C	< 0°C	1.05	> 10 days	0.2	9.7	> 30	PSA for lamination and It is Suitable for high speed coating applications.
C-EAGLE(PA5/55)	55±2	500-3000	3-5	-42°C	< 0°C	1.05	> 3 days	17	23	7	High tack PSA with high shear strength for permanant applications.
C-EAGLE(PA5/56)	56±2	50-300	8-8.5	-46°C	< 0°C	1.03	7 days	6.1	9.3	12.5	PSA for removable and no noise packaging tapes.
C-EAGLE(PA5/60)	60±2	100-400	7.5-9	-11°C	< 0°C	1.03	7 days	4	8.5	> 30	A special formula with cohesion properties doesn't leave tackness on the substrate.
C-EAGLE(PA3/50)	50±2	50-300	8-8.5	-46°C	< 0°C	1.03	25 hours	5.6	9.5	14	Removable PSA with high solid content for removable lables and tapes, packaging tapes and protective foils.
C-EAGLE(PA6/65)	65±2	100-600	8-9	-50°C	< 0°C	1.03	5 hours	26	6	15	A permanent PSA with high solid , low viscosity and good compounding properties for adhesive tapes and construction tapes.

## Specialties Lamination

Product	Monomers	Stabilizer	Min. Film Forming Temp	Particle Size Microns	PH at 23 °C	Density at 23 °C	* Viscosity cP at 23 °C	Total Solids	Suggested Uses
C-EAGLE(VM150/56)	Vinyl Acetate Maleinate Ester	Colloid	0 °c	0.3 - 2	3 - 5	1.05 Kg/L	10000-20000	56±1	Paper Adhesives, Laminations, Floor, wall and ceiling Adhesives, <b>PVC</b> films, <b>PU</b> foams, Polystyrene wall Plates and cellulosic films.

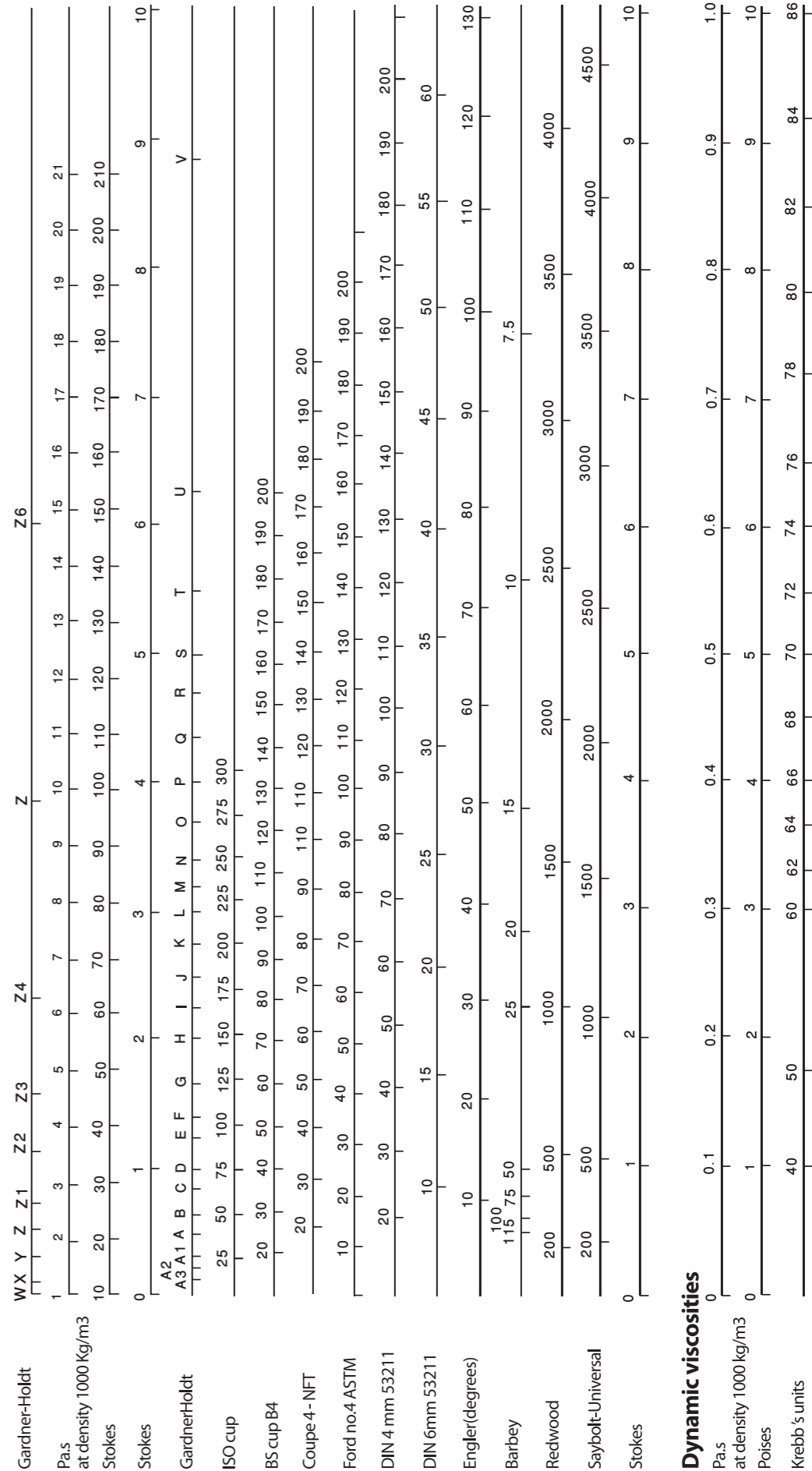
## Specialties Textile Binders

Product	Monomers	Stabilizer	Min. Film Forming Temp	Particle Size Microns	PH at 23 °C	Density at 23 °C	* Viscosity cP at 23 °C	Total Solids	Suggested Uses
CT-EAGLE(VA40/40)	Vam Acrylic Acid Ester	Surfactants	12 °c	< 0.10	5 - 6	1.03 Kg/L	30-60	40±1	Binder for pigment printing on all types of fiber.
HT-EAGLE(320/50)	Vam	Polyvinyl Alcohol	15 °c	0.4 - 2	3 - 4	1.07 Kg/L	30000±10000	50±1	Textile finishes, Lamination, Binder for Fibrous materials.

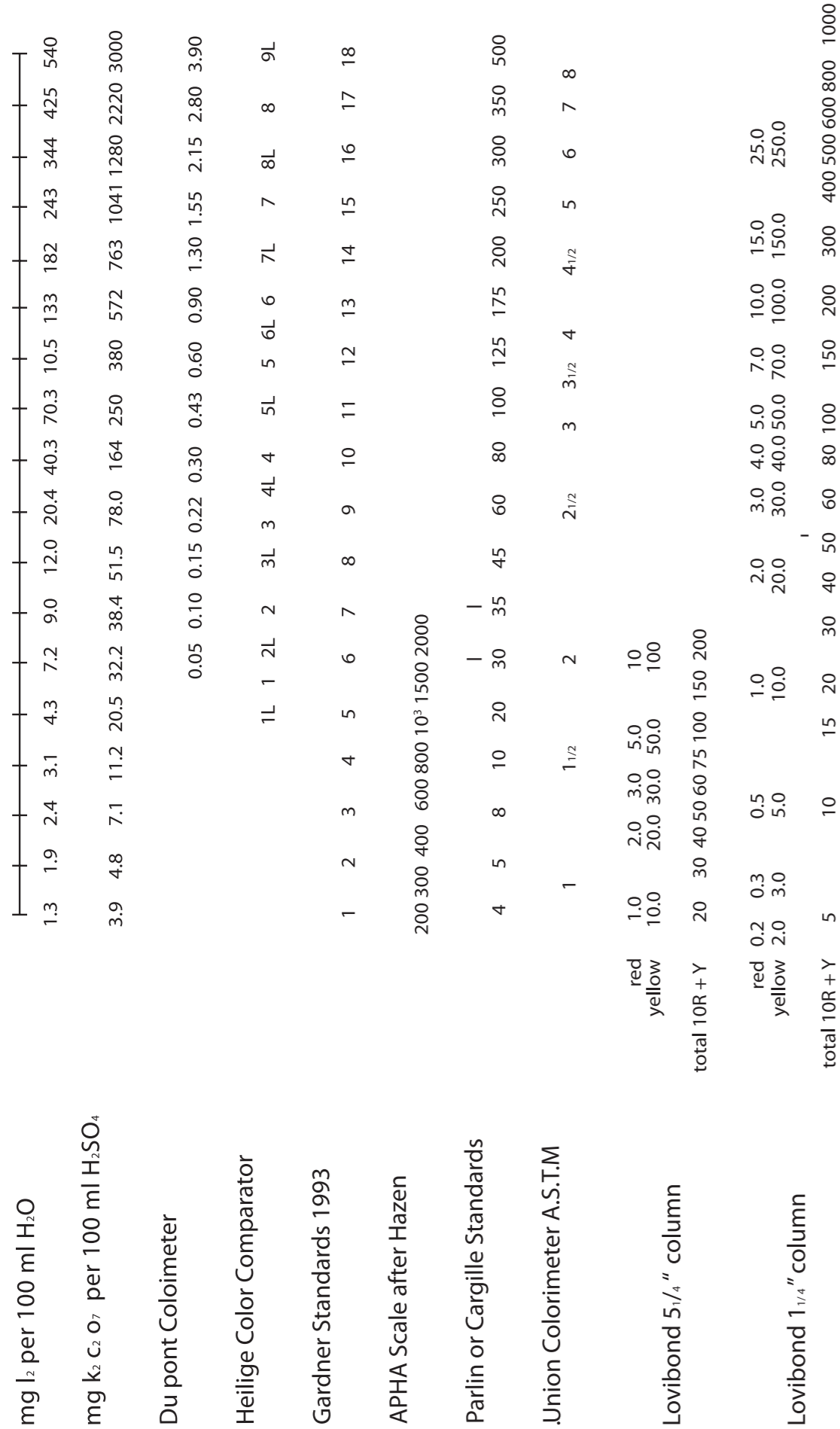
**VISCOSITY CONVERSIONS**  
(For Newtonian Fluids, @ 25 °C, °D = 1)

Centipoises	Ford Cup #4	Zahn #2	Zahn #3	Zahn #4	Gardner Holdt	Kerbs Stormer
1.0					A-5	
10.0		16			A-4	
15.0		17			A-3	
22.0	14	19			A-2	
32.0	15	20			A-1	
50.0	19	22			A	
65.0	22	27			B	
85.0	27	34			C	
100.0	30	41	12		D	
125.0	36	49	14	11	E	
140.0	40	58	16	13	F	
165.0	46	66	18	14	G	
200.0	50	82	23	17	H	52
225.0	55		25	18	I	54
250.0	68		27	20	J	56
275.0	74		32	22	K	59
300.0	81		34	24	L	61
320.0	86		36	25	M	62
340.0	91		39	26	N	63
370.0	99		41	28	O	64
400.0	107		46	30	P	65
435.0	116		50	33	Q	66
470.0	125		52	34	R	67
500.0	133		57	37	S	68
550.0	146		63	40	T	69
630.0	167		68	44	U	71
885.0	199			64	V	78
1.070.0	270				W	85
1.290.0					X	95
1.760.0					Y	100
2.270.0					Z	105
2.700.0					Z-1	114
3.620.0					Z-2	129
4.630.0					Z-3	136
6.340.0					Z-4	
9.850.0					Z-5	
14.800.0					Z-6	

**Kinematic viscosities**



# Colour Conversion Chart



The table only compares the colour intensities of the colour systems; colour shades cannot be presented in a single chart

# Temperature Conversion

## Temperature Conversion

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$$

$$^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32$$

	$^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \leftarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \leftarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \leftarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \leftarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \leftarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \leftarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$	$^{\circ}\text{C} \leftarrow ^{\circ}\text{F}$
-22.3	-10	14.0	-4.4	24	75.2	13.9	57	134.6	32.2	90	194.0	160	320	608
-22.2	-8	17.6	-3.9	25	77.0	32.8	91	195.8	32.8	91	195.8	166	330	626
-21.7	-7	19.4	-3.3	26	78.8	15.0	58	138.2	33.3	92	197.6	171	340	644
-21.1	-6	21.2	-2.8	27	80.6	15.6	59	140.0	33.9	93	199.4	177	350	662
-20.6	-5	23.0	-2.2	28	82.4	16.1	60	141.8	34.4	94	201.2	182	360	680
-20.0	-4	24.8	-1.7	29	84.2	16.7	61	143.6	35.0	95	203.0	188	370	698
-19.4	-3	26.6	-1.1	30	86.0	17.2	62	145.4	35.6	96	204.8	193	380	716
-18.9	-2	28.4	-0.6	31	87.8	17.8	63	147.2	36.1	97	206.6	199	390	734
-18.3	-1	30.2	0.0	32	89.6	18.3	64	149.0	36.7	98	208.4	204	400	752
-17.8	0	32.0	0.6	33	91.4	18.9	65	150.8	37.2	99	210.2	210	410	770
-17.2	1	33.8	1.1	34	93.2	19.4	66	152.6	38	100	212	216	420	788
-16.7	2	35.6	1.7	35	95.0	20.0	67	154.4	43	110	230	221	430	806
-16.1	3	37.4	2.2	36	96.8	20.6	68	156.2	49	120	248	227	440	824
-15.6	4	39.2	2.8	37	98.6	21.1	69	158.0	54	130	266	232	450	842
-15.0	5	41.0	3.3	38	100.4	21.7	70	159.8	60	140	284	238	460	860
-14.4	6	42.8	3.9	39	102.2	22.2	71	161.6	66	150	302	243	470	878
-13.9	7	44.6	4.4	40	104.0	22.8	72	163.4	71	160	320	249	480	896
-13.3	8	46.4	5.0	41	105.8	23.3	73	165.2	77	170	338	254	490	914
-12.8	9	48.2	5.6	42	107.6	23.9	74	167.0	82	180	356	260	500	932
-12.2	10	50.0	6.1	43	109.4	24.4	75	168.8	88	190	374	266	510	950
-11.7	11	51.8	6.7	44	111.2	25.0	76	170.6	93	200	392	271	520	968
-11.1	12	53.6	7.2	45	113.0	25.6	77	172.4	99	210	410	277	530	986
-10.6	13	55.4	7.8	46	114.8	26.1	78	174.2	100	212	413	282	540	1.004
-10.0	14	57.2	8.3	47	116.6	26.7	79	176.0	104	220	428	288	550	1.022
-9.4	15	59.0	8.9	48	118.4	27.2	80	177.8	110	230	446	293	560	1.040
-9.0	16	60.8	9.4	49	120.2	27.8	81	179.6	116	240	464	299	570	1.058
-8.3	17	62.6	10.0	50	122.0	28.3	82	181.4	121	250	482	304	580	1.076
-7.8	18	64.4	10.6	51	123.8	28.9	83	183.2	127	260	500	310	590	1.094
-7.2	19	66.2	11.1	52	125.6	29.4	84	185.0	132	270	518	316	600	1.112
-6.7	20	68.0	11.7	53	127.4	30.0	85	186.8	138	280	536			
-6.1	21	69.8	12.2	54	129.2	30.6	86	188.6	143	290	554			
-5.6	22	71.6	12.8	55	131.0	31.1	87	190.4	149	300	572			
-5.0	23	73.4	13.3	56	132.8	31.7	88	192.2	154	310	590			