Epoxy Amide Resin

Characteristic

Solid epoxy resin solution in mixed Xylene

Applications

Epoxy Amide Resin is used for cold cured Varnished, Solvent based 2-pack coating for metals, as modifier in staving enamels based on acrylics. Alkyd-Melamine resin systems and hot cured adhesives manufacture

Properties	Test Method	Unit	Typical Values
Appearance	Visual	----	Clear Light Yellow Liquid
Color	ASTM1209	Pt-Co APHA	Max 40
Viscosity	DIN 53015@ 25°C	mPa.s	6000-12000
Epoxide Equivalent Weight(EEW)	ASTM D1652	g/eq	434-555
Epoxide Group Content(Epoxy Value)	ASTM D1652	Mol/100g	0.180 - 0.230
Hydrolysable Chlorine Content	ASTM 1726	%wt	Max 0.1
Non-Volatile Content	DIN EN ISO 3251	%wt	74-76

Epoxy Amine Resin

Characteristic

Epoxy Amine resin does not contain any Diluents. Curing Agent used are Aliphatic Polyamine, Polyamides, Amidoamines, Cyclo-Aliphatic Amine and modifiers of above curing agents.

Applications

Adhesives, Casting, Tooling, Civil Engineering, Composite, Automotive, Can and Coil coating, Marine and Protective Coating. Electrical and Electronics use: Potting and Encapsulation.

Properties	Test Method	Unit	Typical Values
Appearance	Visual	----	Colorless transparent liquid
Color	ASTM1209	Pt-Co APHA	Max. 15
Viscosity	DIN 53015@ 25°C	mPa.s	10000-14000
Epoxide Equivalent Weight(EEW)	ASTM D1652	g/eq	182-192
Epoxide Group Content(Epoxy Value)	ASTM D1652	Mol/100g	0.520 - 0.540
Hydrolysable Chlorine Content	ASTM 1726	%wt	Max 0.1
Non-Volatile Content	DIN EN ISO 3251	%wt	Min 99.3

Long Oil Alkyd Resin

Characteristics

Long Oil, Air drying alkyd resin based on soya fatty acid.

Special property

Compatibility with some aliphatic solvents, very high pigment absorption, fast drying, suitable chemical and mechanical resistance, resistance to yellowing are the features of this product.

Properties	Method
Solid Content	70+ 1%
Viscosity 50% (20°C)	900-1700 CP
Colour Gardner	Max 5
Acid Value (solid)	Max 12

Solubility	
White Spirit	Complete
Xylene	Complete
M.E.K	Complete
Butyl acetate	Complete

Resin composition	
Oil Content (Approx)	60%
Phthalic Anhydride	26%

Form of Supply

70% In White Spirit

Properties and Use

Very good brush ability, excellent flow, very rapid set and through drying.

Very good weather resistance and filling power, good gloss and colour retention.

Universal binder for wood and metal finishes.

Medium Oil Alkyd Resin

Characteristics

Medium Oil, Air drying Alkyd Resin.

Type of oil: Soya Fatty Acid.

Special property

Compatibility with some aliphatic solvents, very high pigment absorption, fast drying, suitable chemical and mechanical resistance, resistance to yellowing are the features of this product.

Specification	Method
Solid Content	50%
Viscosity (25°C)	17000-24000 CP
Colour Gardner	Max 3.5
Acid Value (solid)	Max 10-14

Solubility	
White Spirit	Soluble
Xylene	Soluble
M.E.K	Soluble
Acetone	Soluble

Resin composition	
Fatty Acid Type	Soya Fatty Acid
Oil Content	48%
Phthalic Anhydride	27-35%

Form of Supply

50% In White Spirit

Properties and Use

Good drying, very good body, good color. Gloss retention and exterior durability.
Recommended for:
1) Auto -repair enamels
2) Enamels for tractors and agricultural equipment.
3) Air- drying industrial enamels.

Short Oil Alkyd Resin

Characteristics

Short Oil, Air drying alkyd resin.
Type of Oil: Soya Fatty Acid.

Properties	Method
Solid Content	60%
Viscosity (25°C)	15000-25000 CP
Colour Gardner	Max 3.5
Acid Value (solid)	Max 8
Solid Content 60%	60%

Solubility	
Toluene	Soluble
Xylene	Soluble
Butanol	Soluble
Ethanol	Soluble

Resin composition	Percent
Soya Fatty Acid	33%
Phthalic Anhydride	45%

Form of Supply

60% in Xylene

Properties and Use

Good surface hardness, good sprayability.
Good plasticizing properties with amino resin.
Recommended for:
1) Industrial stoving enamel home appliances.
2) Clear and pigmented nitrocellulose lacquers.
3) Clear and pigmented acid curing lacquer

Polyurethane Resin

Characteristics

It is a hydroxylated polyacrylate resin designed to cross-link with various polyisocyanates.

Properties	Method
Solid Content	60 ± 1%
Density	1 g/cm3
Color	Clear liquid
Acid Value	3-9 mg KOH/gr
Flash point	22 (°C)
Viscosity (25°C)	1300-2300 CP
Polymer type	Ability of cross link
Hydroxyl (%)	2/7
Solvent	Xylene

Solubility	
White Spirit	Soluble
Xylene	Soluble
M.E.K	Soluble
Acetone	Soluble

Solubility

Solvable in:

- Aromatic hydrocarbons
- Esters and glycol ethers
- Ketones

Insoluble in:

- Aliphatic hydrocarbons

The film properties

- Good gloss and adhesion
- Excellent mechanical properties
- Very good resistance in moist, salty environment (salt spray)

Storage

- This product has a shelf life of 12 months from data of manufacture
- Stored between 15℃ to 35℃.

Applications

•The application of this resin is to make anti-corrosion coatings and two-component paints resistant to atmospheric factors, water, detergents and chemicals.

Consumption guide

- Solvents such as alcohol and glycol should not be used.
- Refer to the suggested formulas for additional information.

Single Component Thermoplastic Acrylic Resin

Characteristics

Thermoplastic acrylics are prepared by the polymerization of acrylic monomers, also it is modified by styrene, which is supplied as 60% in toluene solvent.

Special property

Compatibility with some aliphatic solvents, very high pigment absorption, fast drying, suitable chemical and mechanical resistance, resistance to yellowing are the features of this product.

Properties	Method
Solid Content	60 ± 1%
Viscosity (25°C)	80-130 sec
Acid Value	12-18 mgKOH/gr
Density	0.90-1.00 g/cm3
Color	Water white
Drying mechanism	Solvent evaporation
Solvent	Toluene

Miscibility and solubility

The compatibility and solubility of this product must be tested by the consumer before use.

• Aromatics, esters, and ketones (Solvents)	Solution
• Aliphatic Solvents	Low solubility
• Alcohols	Insoluble

Packing

190 kg steel barrels

Applications

- Traffic and road lines coatings.
- Swimming pool coatings.
- Metal and mineral coating.

Storage:

- Keep away from sources of ignition and heat.
- Stored between 0°C to 30°C

Two Component Thermoplastic Acrylic Resin

Characteristics

Cold Plast Acrylic Resin (pure) are prepared by the polymerization of acrylic and methacrylate monomers, which is supplied as two components. The main component is the resin and the second component is the reaction initiator.

Specification

Due to its molecular structure, it has a very low caking capacity. One of the unique features of this product is its high pigment ability, which makes the operator perform better. Hardness, abrasion resistance and necessary flexibility are other features of this product.

Properties	Method
Viscosity (25°C)	18 - 25 sec
Acid Value	4 – 6 mgKOH/gr
Density	0.98 – 1.1 g/cm3
Color	Cloudy-yellow
Gel time (4% powder)	8 - 12 min
Gel time (2% powder)	17 - 20 min
Average Particle Size(μ m)	0.23
Surface Treatment	Zirconia & Alumina, Organic

Procedure

Recommended to add 2-4% Benzoyl peroxide to the ready paint and mix it thoroughly. Then apply it to the desired place 3mm too. The final curing of this product is in the ambient conditions and it is better to use it at a temperature of 15-30°C.

Packing

200 kg steel barrels

Applications

- Traffic and road marks coatings.
- Street marking, pedestrian lines
- Floor coverings

Storage

- Keep away from sources of ignition and heat.
- Stored between 0°C to 30°C