

POLYTONE®

K Series/ Aldehyde Resin



POLYOLS & POLYMERS PVT. LTD.

REGD. OFFICE & WORKS -1 (VAPI):

C-1/58-59, G.I.D.C.

VAPI 396 195

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25years
1989 - 2014



POLYTONE™

K Series Ketonic/Polyketone Resins/Aldehyde Resins



The flagship product line of our company. We are the pioneers Ketonic Resin in the subcontinent. Manufacturing this product since our inception, we understand this product like on one else!

With 8 grades and scope for further modification, our K-Series assists and improvises the formulation. It not only provides the exact results expected, but enhances the end product quality. We provide you with the product choice to suit your needs along with choice of packaging, shipping and commercial terms.

The premium grade synthetic resin offered by us has received wide acceptance all across the world. About 75% our POLYTONE™ K Series Alkyl Phenol Resins are exported.

ALDEHYDE RESIN

POLYTONE™ K 88

Type

- Polyketone
- Ketone Aromatic Aliphatic
- Aldehyde Resin

Chemistry

- Ketone Aldehyde Condensation
- Ketone Aldehyde

POLYTONE™ K 88 is a neutral, unsaponifiable, solvent-free, ketone-aldehyde condensation resin. This product improves gloss, hardness, and the adhesion on aluminum and steel. Use of

POLYTONE™ K 88 increases drying speed and builds resistance to mineral oil.

It is generally used in combination with other binders. As its widely compatible and efficient, its used to improve gloss, solid content & covering capacity of most diverse paint and coating systems.

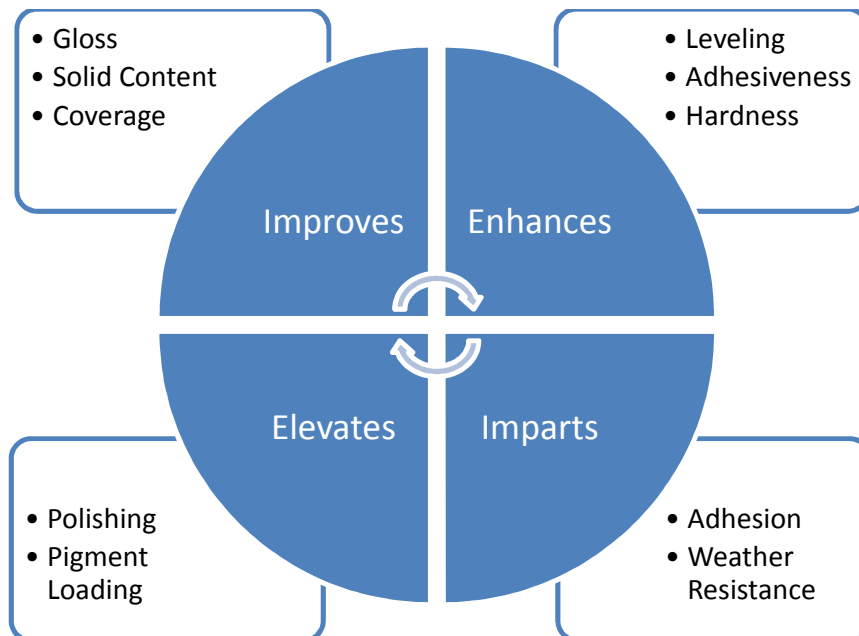
It also has great viscosity reduction and increase of solids content for industrial coatings, wood and furniture coatings, architectural coatings, and leather coatings.

APPLICATIONS

- POLYTONE™ K 88 is suitable for the manufacture of clear a pigmented nitrocellulose wood and metal finishes
- Because of its favorable price and low colour number, POLYTONE™ K 88 forms a good base for the manufacture of bright clear lacquers as well as while enamels. These lacquers are generally characterized by good adhesion
- POLYTONE™ K 88 improves the pigment loading capacity of nitrocellulose lacquers so that even at high pigmentation an excellent gloss can be still ne achieved. In wood primers, POLYTONE™ K 88 nitrocellulose combination lacquers containing 30%(calculated on basis of POLYTONE™ K 88) of maleic resin, coconut oil or ground nut alkyd resin, or a fatty acid alkyd resin, are found to have a rapid solvent release and consequently can already be sanded after a short period of time
- Due to its insolubility in aliphatic hydrocarbons, POLYTONE™ K 88 is suitable for the manufacture of finishes which have to be resistant to mineral oil. For the same reason, polishes containing white spirit may also be used on corresponding nitrocellulose polishing lacquers
- Good weathering resistance is achieved by combining POLYTONE™ K 88 with nitrocellulose, plasticizers and suitable alkyd resins.
- POLYTONE™ K 88 acts as a hard resin in combination with soft resins and polychloroprene for the manufacture of adhesive

AROMATIC ALIPHATIC KETONE ALDEHYDE RESIN	
	POLYTONE™ K 88
Physical Form	Granules or Lumps
Softening Point (Ball & Ring)	88 – 102 °C
Color (Gardner)	≤ 4.0 (50% Sol ⁿ in Ethyl Acetate)
Hydroxyl Value (mg KOH/gm Resin)	5.0 Approx.
Acid Value (mg KOH/gm Resin)	≤ 1.0
Characteristics	<ul style="list-style-type: none"> ✓ Wide Compatibility ✓ Wide Solubility ✓ Imparts Hardness in Soft Resin Systems ✓ Improves Wetting

EFFECT ON FORMULATION



SOLUBILITY	
	POLYTONE™ K 88
Aliphatic Hydrocarbons	⊘
Aromatic Hydrocarbon	•
Alcohols -Methanol -Ethanol	⊘
Higher Alcohols -N-Butanol -ISO-Butanol	•
Esters	•
Polyols	•
Ketones	•
Mineral Oils	⊙
Water	⊘
<ul style="list-style-type: none"> • Soluble ⊙ Limited Solubility ⊘ Insoluble 	

COMPATIBILITY (Parts by Weight)	
	POLYTONE™ K 88
Acrylic Resin	⊙
Urethan Acrylic Resins	•
Alkyd Resin	⊙
Styrenated Alkyd Resin	⊙
Melamine Resin	•
Resols, Non Plasticized	•
Phenolic Resin, Modified	•
Polyester Resin, Saturated	•
Zinc Resinate	⊘
Ketone Resin	•
Aldehyde Resin	⊙
Hydrocarbon Resin	⊙
VC Copolymer	•
Calcium Resinates	⊘
Fully Compatible	: •
Limited Compatibility	: ⊙
Not Compatible	: ⊘



STORAGE & HANDLING

Available in 25Kg HDPE Line KRAFT Paper Bags with Anti Static Liner *or* 25Kg HDPE Bags
Choice of ISPM 15 Standard Heat Treated/Fumigated Pallets or Plastic Pallets.

Individual pallets must NOT be double stacked – pastilles/lumps are likely to agglutinate.
Properties are not affected by agglutination

Can be stored up to 12 months at temperatures below 35 °C.

SAFETY

Please follow advice and information provided in MSDS. Protective clothing & workplace hygiene measure must be observed at all times.

Detailed MSDS available on request.

CONTACT US

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