



POLYTONE SYNTHETIC RESINS

Ketone Aldehyde Resin

TECHNICAL DATA	POLYTONE K 88
Chemical Classification	Ketone Aldehyde Condensation Resin
Physical Form	Lumps
Softening Point (Ball & Ring Method)	88° C – 102 ° C
Colour (Gardener) 50% Solution in Ethyl Acetate	4 Max
Hydroxyl Value	Approx. 5 mg KOH / gm resin
Acid Value	1 mg KOH / gm resin (Max)

Properties & Usage

POLYTONE K 88 is a neutral, unsaponifiable ketone-aldehyde condensation resin. In general used in combination with other binders. On account of its wide compatibility and its efficiency, it is used to improve gloss, solid content and covering capacity in the most diverse paints systems. These resins are highly effective in imparting gloss, adhesiveness, leveling and also in increasing the solid content leading to a reduction in the VOC.

Industrial Applications

POLYTONE A 88 is suitable for the manufacture of clear and 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 white 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 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.

Solubility

POLYTONE K 88 is soluble in all solvents commonly used in the paint industry with the exception of aliphatic hydrocarbons and alcohols.

Compatibility

In order to test the compatibility of POLYTONE K 88 with binders, corresponding solutions were mixed in such a way that 20% and 40% of resin, based on the respective binder, were added. After application to glass and drying, the dry films were assessed for appearance. Individual data are shown in

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Binder	Compatibility with POLYTONE K 80	Binder	Compatibility with POLYTONE K 88
Acrylic Resin	±	Polyester Resin, Saturated	+
Urethane Acrylic Resin	+	Zinc Resinates	-
Alkyd Resins	±	Ketone Resins	+
Styrenated Alkyd Resin	±	Aldehyde Resin	±
Melamine Resins	+	Aldehyde Resin	±
Resols, non plasticized	+	Calcium Resinates	+
Phenolic Resins, Modified	+		

+ = Compatible

± = limited compatibility

- = incompatible

Packaging

Available in 25 Kg bags

Shelf Life

Store under cool dry conditions. It is recommended that the material be used within 12 months from the date of manufacture