

Product Details

Product Name : HIPOL 16 LV
Product CAS no. : 68648-78-2

HIPOL 16 LV is a novel low viscosity grade of Polyvinylbutyral resin offered by MICRO INKS LIMITED. HIPOL 16 LV is latest addition to the standards of HIPOL resins offered for printing Inks, Paints, Coatings, Adhesives and Ceramics.

Specifications

Physical Appearance	White fluffy powder
Viscosity in sec @30 ⁰ C (20% Ethanol in B4 Ford cup)	75-85
Volatile Content (%w/w max)	2
Acid Value(mg KOH/gm)	1 max

GENERAL PROPERTIES

HIPOL 16LV offers following unique properties :

- 1.Excellent adhesion to metals, plastics, glass, ceramics, wood, concentrate, leather etc.
- 2.With very large surface area combined with low molecular weight, product undergoes into solution under mild agitation in a very short time to offer clear transparent solution with minimum loss of solvent.
- 3.Product is soluble in low cost environment friendly solvents like alcohols, glycol ethers & has ability to accept ester, ketones etc.
- 4.Excellent film formation property. Film being clear, transparent, odourfree & tasteless.
- 5.Excellent pigment wetting in non-aqueous medium.
- 6.Excellent compatibility with other film forming resins like N.C., Epoxy alkyds, phenolics, cellulosics etc.
- 7.Free hydroxyl groups present in HIPOL are chemically reactive & undergo reactions with phenolics, epoxies, isocyanates, melamine aldehyde resins etc.
- 8.Being lowest molecular weight resin of HIPOL series offers excellent flexibility. Product also shows good adhesion resistance, heat resistance, resistance to water and wide range of other chemicals.
- 9.HIPOL 16LV is a thermoplastic resin with low softening temperature & hence shows good heat sealing properties. Thermoplasticity can be reduced or eliminated completely by cross linking reaction involving free hydroxy groups.

APPLICATIONS

HIPOL 16LV is an ideal choice where high solid & with low viscosity is the basic requirement.

HIPOL 16LV finds applications in following areas:

HIPOL 16LV with its unique combination of physical and chemical characteristics is an ideal binder for flexographic/ gravure printing inks for surface printing as well as lamination applications in flexible packaging involving substrates like polyester, BOPP, Polyethylene, PVDC coated pp, acrylic coated PP, cellulose acetate, cellophane, polystyrene, polyamide films. Also HIPOL 16LV is an ideal binder for production of pigment chips, thermal transfer printing inks, varnishes etc.

PRINTING INKS

HIPOL 16LV offers good water resistance coupled with good blocking resistance, good flow and excellent pigment wetting properties, hence is ideal for formulation of gravure and flexographic printing inks.

Stability : Stable

Hazardous Polymerization : Will not occur

Conditions to avoid : Heat, Open Flame or other sources of ignition.

HEAT-SEALING LACQUERS

HIPOL 16LV with low softening temp offers lower sealing temperature. However further reduction in sealing temperature could be achieved by incorporation of plasticizer and heat sealing temperature could be increased by incorporating nitrocellulose.

TWO-PACK PAINTS

Low molecular wt., high functionality because of free hydroxyl groups helps use of HIPOL 16LV formulation on non yellowing stoving finishes for metals and metal foils. Crosslinking could be achieved with resins like phenolic resins, melamine, urea etc. Coating formulations curing at room temperature are obtained by combining HIPOL 16LV with urea resins using mild solvents. Cured coatings show water and alcohol resistance and bear high mechanical stresses and find application as floor sealers for indoor and outdoor application.

SHELF LIFE

Recommended for use within one year of date of manufacture.