



SYNPOL PRODUCTS PRIVATE LTD.

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ODHAV, AHMEDABAD – 382 415, INDIA

PRODUCT CODE : KETONIC / 08.01

Synpol SK-10

TYPE : Cyclohexanone formaldehyde resin in solid lump form.

SPECIFICATIONS :

1) Appearance	Clear solid in lumps form.
2) Density @ 25 ^o C.	1.18 - 1.22
3) Melting point ^o C. by capillary method.	80 - 100
4) Viscosity @ 30 ^o C. of 55 % solution in ethanol in FC4, sec.	25 - 35
5) Acid value (mg KOH/g)	1 max.
6) Hydroxyl value (mg KOH/g)	200 - 300

SOLUBILITY : Synpol SK-10 is soluble in alcohols, esters, ketones, glycol ethers and chlorinated hydrocarbons. It has limited solubility in aromatic hydrocarbons and is insoluble in aliphatic hydrocarbons and water.

COMPATIBILITY : Synpol SK-10 is compatible with all short oil alkyds, aminos, polyesters, phenolics, non reactive polyamides, polyurethanes, P.V.B. resins, natural and synthetic rubber, NC and ester type of plasticizers.

APPLICATIONS : Synpol SK-10 is a thermoplastic resin and doesn't form films by itself, and hence should be used along with other film forming resins. It has very low color, odour and toxicity. It's saturated ring structure accounts for hardness, gloss and outdoor durability. It's polar hydroxyl groups accounts for properties of solubility, compatibility, adhesion, pigment wetting and acts as reactive sites for curing systems. It not only improves the general performance of a formulation but reduces its cost. It finds following end uses.

GRAVURE AND FLEXOGRAPHIC INKS: to improve pigment wetting, gloss, adhesion , printability, solids content and to reduce gel point of polyamide resins.

LAMINATING INKS: to improve adhesion and gloss.

COATINGS: to improve adhesion, gloss (especially in pigmented systems), leveling, non volatile content, surface hardness and sandability (mainly in two component polyurethane systems). The main applications are in nitrocellulose lacquers, vinyl coatings, polyurethane coatings, heat seal coatings, label and paper coatings, etc.

PLASTISOLS: to lower fusion temperatures, to increase tensile strength, to improve gloss (in pigmented formulations).

NAIL COATINGS: to improve gloss, surface hardness and body.

OTHER APPLICATIONS: floor polishes, adhesives, rubber compositions, etc.

ADVANTAGES :

CHEMICAL RESISTANCE: Synpol SK-10 has very good resistance to acids and alkalies, and hence can be used along with other binders (e.g. vinyl resins) in the formulation of anticorrosive and maintenance paints.

WATER RESISTANCE: Synpol SK-10 is insoluble in water. In some formulations it reduces water transmission rates. In other systems it helps to reduce water sensitivity.

OUTDOOR DURABILITY: Properly pigmented formulations containing Synpol SK-10 has excellent durability. It is essentially non-chalking by itself. However clear films may yellow without the addition of the usual additives like antioxidants, UV light absorbers and stabilizers.

HEAT SEALABILITY: In heat seal coatings, it gives excellent adhesion at relatively low temperature. The heat seal temperature can be controlled by varying the percentage of Synpol SK-10 in the formulation.

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DISCLAIMER: Above Specifications are subject to change without prior notice and company reserves the right to modify the same at any time

MATERIAL SAFETY DATA :

Product name	Synpol SK-10
Flash point ⁰ C. (Abel closed cup)	Above 200
Flammability	Combustible.
Toxicity	Virtually non toxic.
Handling	Keep away from sources of ignition, provide all electric connections of flame-proof design. Wear safety glasses, rubber gloves and protective clothings.
Emergency treatment and measures	
1 Hygienic precautions	Adequate ventilations.
2 Hygienic treatments (First Aid)	Flush eyes thoroughly with water. Apply ophthalmic cortisone for conjunctivitis and keratities. Wash out contaminated skin with soap and water. Gastric lavage (stomach wash), if swallowed, followed by saline catharsis.
3 Fire precautions (in case of outbreaks)	Use dry chemical or carbon dioxide. Water spray may help to keep containers cool, to dilute leaked resins and to diffuse vapours.
Spills and leakage	Absorb liquid materials in sand and collect solid material and burn under hood in incinerator.
Disposal and waste treatment	Spray into furnace under controlled conditions.

STORAGE :

The properties are so adjusted to have storage stability of minimum 6 months.

PACKING :

25 kgs. polylined paper bags.

DISCLAIMER :

Information in this literature is to the best of our knowledge true and accurate. However, since conditions under which our products may be used are beyond our control, recommendations are made without warranty or guarantee.

Issue date : Jan. 2009

Riv-04