



SYNPOL PRODUCTS PRIVATE LTD.

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PRODUCT CODE : MISC. / 10.09

Synpol PU-640 Matt & Synpol L-50

TYPE : Polyacrylic polyol - Polyisocyanate based two component coating system.

SPECIFICATIONS :

	Synpol PU-640 Matt	Synpol L-50
1) Appearance	Off white hazy liquid	Straw colour clear liquid
2) Density @ 25 ⁰ C.	0.98 - 1.00	1.02 - 1.04
3) % Solids @ 120 ⁰ C. for 2 hrs.	48 - 52	46 - 50
4) Solvent	Xylene, Cellosolve acetate	Ethyl acetate
5) Viscosity @ 25 ⁰ C. by g.t., poises	10 – 15	< 0.5
6) Mixing ratio, parts by weight	Three	one

7) Mix viscosity @ 25 ⁰ C. by FC4, seconds		125 - 145
8) Pot life @ 25 ⁰ C., hours.		12
9) Curing time @ 25 ⁰ C.	Surface dry, minutes	2 - 3
	Tack free dry, minutes	5 - 6
	Hard dry, minutes	160 - 170
10) Film properties,	Gloss	Soft matt finish
	Hardness	Passes nail scratch
	Flexibility	Moderate

SOLUBILITY :

Synpol PU-640 Matt & Synpol L-50 are soluble in Ethyl acetate, Butyl acetate, M.E.K. and Cyclohexanone. It is partially soluble in Aromatic Hydrocarbons and is insoluble in Aliphatic Hydrocarbon. Alcohols and Amine based solvents should not be used as they react with Synpol L-50. In all formulations containing Synpol L-50, anhydrous (moisture-free) solvents should be used for thinning, as Synpol L-50 is sensitive to moisture.

APPLICATIONS :

Synpol PU-640 Matt & Synpol L-50 based polyurethane lacquer finds applications in matt finishes for household appliances, plastic and metal cabinets for TV, Audio systems, VCR, etc., Electric motors, Fans, Sewing machines, Toys, Engineering goods, etc. It also finds application as wood finishes in furniture industries, giving excellent matt finish and high build of coatings, very good resistance to hot and cold drinks, liquors, weak acids & alkalies, vegetable oils, fruit juices and prepared food items, etc., coupled with excellent abrasion resistance.

ADVANTAGES :

- High build.
- Long pot life.
- Excellent application properties (spray or roller coated).
- Fast drying times and minimum dust pick-up.
- Excellent durability.
- Good adhesion to all types of primers and good recoatability.
- Less expensive than polyester based polyurethane (much lower isocyanate requirement).
- Very good resistance to aromatic & aliphatic hydrocarbons and water. It has limited resistance to lower alcohols, ketones.

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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 PU-640 Matt	Synpol L-50
Flash point ⁰ C. (Abel closed cup)	31	28
Flammability	Moderate fire risks.	
Toxicity	Moderately toxic by exposure and inhalation due to vapours of Ethyl acetate, Xylene and Cellosolve acetate.	
Handling	Keep away from sources of ignition, provide all electric connections of flame-proof design. Wear safety glasses, rubber gloves and protective clothings. Polyurethane systems are highly sensitive to moisture and water, and hence should be kept in dry place and closures of the packings should be kept in air-tight position.	
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 :

Synpol PU-640 Matt and Synpol L-50 should be stored in cool and dry place under the shade. The properties are so adjusted to have a storage stability of minimum 6 months.

PACKING :

25 kgs. M.S. drums.

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.

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