



SYNPOL PRODUCTS PRIVATE LTD.

Regd Office & Factory: 77, G.V.M.S. AUDYOGIC VASAHAT LTD.,
ODHAV, AHMEDABAD – 382 415, INDIA

PRODUCT CODE : MISC / 10.04

Synpol L-50

TYPE : Aromatic poly-isocyanate adduct solution for curing Hydroxyl functional coating resins.

SPECIFICATIONS :

1) Appearance	Light straw colour mobile liquid.
2) Density @ 25 ⁰ C.	1.02 - 1.04
3) % Solids @ 120 ⁰ C. for 2 hrs. .	46 - 50
4) Solvent	Ethyl acetate
5) Viscosity @ 25 ⁰ C., poise	< 0.5
6) Colour, gardner	3 max.
7) % NCO content of supply	8.35 - 9.0
8) Equivalent weight of supply, aprx.	485
9) Content of monomeric Di-isocyanate, % max.	0.5

SOLUBILITY : Synpol L-50 is 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.

COMPATIBILITY : Synpol L-50 is compatible with all types of polymers containing Hydroxyl groups such as Acrylic polyols, Polyester & Polyether polyols, Epoxy resins, Short-oil alkyds, and Castor oil based polyols.

APPLICATIONS : Synpol L-50 when formulated along with Hydroxyl containing polymers gives coatings with stain resistant properties with excellent gloss, hardness, moderate flexibility, very good adhesion coupled with resistance to mild organic acids, oils, grease, soaps and detergents. Synpol L-50 along with above polymers finds application for kitchen appliances, laboratory and hospital equipments, electrical and electronic instrument panels and automobile finishes, etc.

SUGGESTIVE FORMULATIONS :

1) White glossy two pack polyurethane enamel.

Part I	kgs.	
Titanium dioxide rutile	23.0	
Synpol AT-67	42.0	
Butyl acetate	<u>15.0</u>	<u>80.0</u>
Part II		
Synpol L-50	<u>20.0</u>	<u>20.0</u>
Total	100.0	
% Solids	58.2	
Viscosity @ 25 ⁰ C, cps.	400	
Pigment binder ratio	40 : 60	

2) Two pack PU white glossy enamel

Part I	kgs.	
Titanium dioxide Rutile	20.0	
Synpol SP-48 (70%)	40.0	
Xylene	18.4	
Lead octoate 18 %	0.9	
Cobalt octoate 6 %	0.2	
Calcium octoate 6 %	<u>0.5</u>	80.0
Part II		
Synpol L-50	13.0	
Butyl acetate	<u>7.0</u>	<u>20.0</u>
Total	100.0	
Pigment binder ratio	40 : 60	
% Non volatiles aprx.	55	
Specific gravity @ 25 ⁰ C	1.1 - 1.2	

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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 L-50
Flash point ⁰ C. (Abel closed cup)	- 1
Flammability	Moderate fire risk due to presence of Ethyl acetate.
Toxicity	Moderate toxic by exposure and inhalation of vapours of Ethyl acetate and traces of free monomeric Di-isocyanates.
Handling	Keep away from sources of ignition, provide all electric connections of flame-proof design. Wear self contain breathing apparatus, 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 : Synpol L-50 should be stored in cool place under shade. The properties are so adjusted to have storage stability of minimum 3 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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