



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE : ACRYLIC / 06.07

SYNPOL AT-62

TYPE : Acrylic co-polymer based polyol for polyurethane applications and is particularly recommended where economy is a major factor (Low isocyanate requirement).

SPECIFICATIONS :

1) Appearance	Water clear viscous liquid.	
2) Density @ 25 ^o C.	1.01 - 1.03	
3) % Solids @ 150 ^o C. for 30 minutes.	53 - 57	
4) Solvent	Xylene	
5) Viscosity @ 25 ^o C. , poises, gardner	20 - 30	
6) Acid value of resin solids, mg. KOH / gm.	8 max.	
7) Hydroxyl value of resin solids, mg. KOH / gm.	45 - 55	
8) Hydroxyl equivalent weight of resin solids, aprx.	1100	
9) Mixing ratio of 100 parts by weight of Synpol AT-62	With Desmodur N-75	12.75 parts
	Or with Synpol L-75	16 parts

SOLUBILITY : Synpol AT-62 is soluble in ketones, esters and aromatic hydrocarbons. The solvents chosen for paints and lacquers should be free of water and alcohols.

COMPATIBILITY : Synpol AT-62 has very good compatibility with all types of aliphatic and aromatic polyisocyanate and their adducts. However it is advisable to check its compatibility prior to use.

APPLICATIONS : Synpol AT-62 when formulated along with polyisocyanate crosslinkers gives coatings with exceptionally fast drying, high gloss, and good hardening rate. Synpol AT-62 finds application for kitchen appliances, laboratory and hospital equipments, electrical and electronic instrument panels and automobile finishes, etc. Synpol AT-62 with aliphatic polyisocyanate crosslinkers like Desmodur N-75 gives excellent outdoor durability coupled with superior glossy non-yellowing surface for extended period as compared to aromatic polyisocyanates like Synpol L-75. Synpol AT-62 with Desmodur N-75 in stoichiometric proportions has a usable pot life at spraying viscosity in excess of a full working day at normal room temperature. The use of catalysts or high temperatures will reduce this storage period. To increase the initial hardening rate, both at ambient temperatures and under low bake conditions, the use of tin or zinc catalysts in the form of Dibutyl tin laurate or Zinc octoate is recommended. Typical Dibutyl tin laurate (1 % metal) would be 0.1 % on total resin solids.

SUGGESTIVE FORMULATION :

White gloss paint

Part I	kgs.	
Titanium dioxide rutile	27.0	
Synpol AT-62	53.0	
Butyl acetate	7.0	
Cellosolve acetate	<u>3.0</u>	<u>90.0</u>
Part II		
Desmodur N-75	6.5	
Butyl acetate	<u>3.5</u>	<u>10.0</u>
	Total	100.0
Viscosity @ 25 ^o C, cps., aprx.	400	
Pigment : binder ratio	44 : 56	
% Total Solids	61.0	

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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 AT-62
Flash point ° C. (Abel closed cup)	30
Flammability	Moderate fire risk due to presence of solvent like Xylene.
Toxicity	Moderate toxic by exposure and inhalation of vapours of Xylene and traces of free monomers.
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 :

Synpol AT-62 should be stored in cool place under shade. The properties are so adjusted to have storage stability of minimum 6 months.

PACKING :

25 kgs. M.S. drums, 50 kgs. Plastic carboys and 200 kgs. M.S. barrels.

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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