



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE : ACRYLIC / 06.04

Synpol AT-52

TYPE : Thermosetting acrylamide acrylic resin solution.

DESCRIPTION : Synpol AT-52 is an acrylamide containing thermosetting acrylic resin solution, supplied in the unmodified form and requiring the addition of epoxy resin as a cross linking agent.

SPECIFICATIONS :

1) Appearance	Yellow colour clear viscous liquid.
2) Density @ 25 ⁰ C.	0.90- 0.91
3) % Solids @ 150 ⁰ C. for 30 minutes.	53 - 57
4) Solvent	Xylene : n-Butanol (1: 1)
5) Viscosity @ 25 ⁰ C. , poises, gardner	40 - 60
6) Colour, gardner	3 max.
7) Acid value of resin solids, mg. KOH / gm.	15 -25
8) n-Butanol tolerance	Infinite

SOLUBILITY :

Synpol AT-52 is soluble in alcohols, aromatic hydrocarbons, ester and ketone solvents. Insoluble in aliphatic hydrocarbon solvents. A combination of xylene and n-butanol in the ratio of 3 : 1 to 6 : 1 is recommended.

COMPATIBILITY :

Synpol AT-52 is compatible with medium molecular weight epoxy resin like Synpol 450 XX.

APPLICATIONS :

Synpol AT-52 when modified with epoxy resin is recommended for high performance stoving finishes suitable for coating washing machines, refrigerators, office, laboratory and hospital furniture, bicycles and toys. A low viscosity resin suitable for use in high build one coat enamels, where high standards of chemical, stain, corrosion and detergent resistance are required. Adhesion and mechanical properties obtained from 30 minutes at 150⁰ C cure are of a high order. This resin is not recommended for those application demanding high standards of colour retention and exterior durability.

SUGGESTIVE FORMULATION :

White glossy stoving enamel.

	kgs.
Titanium dioxide rutile	29.6
Synpol AT-52	49.3
Synpol 450 XX	4.4
Xylene	9.8
Butanol	3.6
Cellosolve	<u>3.3</u>
Total	100.0
% Solids	62.5
Acrylic Epoxy ratio	90 : 10
Stoving schedule @ 150 ⁰ C., minutes.	30

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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-52
Flash point ° C. (Abel closed cup)	31
Flammability	Moderate fire risk due to presence of solvents like Xylene, n-Butanol.
Toxicity	Moderate toxic by exposure and inhalation of vapours of Xylene, n-Butanol 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-52 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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