



# SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE : EPOXY / 03.16

## Synpol 6040

TYPE : Short oil length, soya fatty acid modified epoxy ester for air-drying as well as stoving applications.

### SPECIFICATIONS :

1) Appearance	Clear yellowish viscous liquid
2) Specific gravity @ 25 <sup>o</sup> C.	0.90 - 0.94
3) % Solids @ 120 <sup>o</sup> C. for 2 hrs.	48 – 52
4) Solvent	Xylene, White spirit
5) Viscosity of supply @ 25 <sup>o</sup> C., poises (gardner)	10 – 14
6) Colour value (gardner)	10 max.
7) Acid value of resin solids, mg KOH / gm.	7 max.

**SOLUBILITY :** Synpol 6040 is soluble in higher alcohols, esters, ketones, glycol ethers, aromatic hydrocarbons. It has limited solubility in aliphatic hydrocarbons and is insoluble in water.

**COMPATIBILITY :** Synpol 6040 is compatible with short oil alkyd resins, and all types of butylated UF & MF resins.

**APPLICATIONS :** Synpol 6040 is very useful for clear and pigmented coatings with very good alkali and chemical resistance properties for kitchen appliances, hospital equipments and furnitures. It finds application in metal decoration i.e. crown cap overprint varnish as well as aluminium collapsible tube white enamels. High boiling solvents such as Aromax, DAA in final formulation is necessary in metal coatings.

### AIR DRYING PROPERTIES : (With 0.04 % Cobalt metal content on resin solids)

Surface dry, minutes	5
Tack free dry, minutes	80 – 100
Hard dry, hrs.	5

### SUGGESTIVE FORMULATIONS :

*1)Epoxy ester amino based water resistant white spray enamel for hospital and laboratory appliances.*

*2)Overprint varnish for Crown caps*

	Kgs..		Kgs.
Titanium dioxide Rutile	25.0	Synpol 6040	87.00
Synpol 6040	42.0	Synpol MF 268	3.50
Synpol MF-268	15.0	Cobalt Octoate (6%)	0.04
N-Butyl alcohol	4.5	Silicone resin	1.00
Xylene	<u>13.5</u>	Aromax	5.66
Total	100.0	DAA	<u>2.80</u>
		Total	100.00

% Solids @ 120 <sup>o</sup> C. for 1 hr.	55.0	% Solids @ 120 <sup>o</sup> C. for 1 hr.	42 - 44
Pigment binder ratio	44 : 56	Viscosity @ 30 <sup>o</sup> C by FC 4, secs.	125 - 140
Epoxy ester MF ratio	70 : 30	Stoving schedule.@ 150 <sup>o</sup> C, minutes	12
Thinner (Xylene : n-Butanol)	4 : 1 mixture	Dry film weight, mg. per sq. inch	4 – 4.5
Stoving schedule @ 120 <sup>o</sup> C, minutes	30		

Continued.....

**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 6040
Flash point ° C. (Abel closed cup)	30
Flammability	Moderate fire risk
Toxicity	Mild toxic by exposure and inhalation due to vapours of Xylene.
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 6040 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 180 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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