



# SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE: EPOXY / 03.08

## Synpol 900

TYPE: Solid unmodified epoxy resin.

DESCRIPTION: Solid unmodified epoxy resin based on Bisphenol A and Epichlorohydrine primarily meant for manufacture of epoxy ester.

### SPECIFICATIONS:

1) Appearance	Light yellow clear solid lumps
2) Density @ 25 <sup>o</sup> C.	1.18 - 1.19
3) Viscosity @ 25 <sup>o</sup> C. of 40% solution in Butyl carbitol, poises	4.3 - 6.3
4) Colour (gardner)	3 max.
5) Epoxide equivalent weight of resin solids	850 - 1050
6) Melting point <sup>o</sup> C., Ball & Ring method	95 - 105

SOLUBILITY: Synpol 900 is soluble in esters, ketones, glycol ethers. Aromatic hydrocarbons and higher alcohols can be used as latent solvent to limited extent for further dilution. It is insoluble in aliphatic hydrocarbons and water.

COMPATIBILITY: Synpol 900 is compatible with all butylated amino resins, phenolic resoles and other liquid and solid grades of epoxy resins.

APPLICATIONS: Synpol 900 is primarily used for manufacture of epoxy esters using various kinds of saturated and unsaturated monomeric and dibasic fatty acids. Such esters are valuable raw materials for manufacture of coatings having excellent adhesion, flexibility, chemical resistance, hardness and abrasion resistance, making them particularly attractive in automobile primers, metal decorating and maintenance enamels. Fatty acids like coconut, soya, linseed, D.C.O., dimer fatty acids are used to prepare short, medium, and long oil length esters to suit various applications.

### SUGGESTIVE FORMULATION:

#### 1) White roller coating tube enamel

	kgs.
Titanium dioxide rutile	30.0
Epoxy ester Synpol 6040	54.0
Synpol MF 268	5.1
N-Butyl alcohol	3.6
Xylene	7.1
Zirconium Octoate 6 %	<u>0.2</u>
Total	100.0
% Solids	60.0
Epoxy ester MF ratio	90 : 10
Pigment binder ratio	50 : 50
Baking schedule @ 150 <sup>o</sup> C, minutes	30.0

#### 2) Gray floor enamel

	kgs.
Titanium dioxide rutile	26.4
Lamp black	0.1
Aerosil 200	0.4
Epoxy ester Synpol 5545	48.0
Mineral turpentine	24.1
Cobalt nephthanate 6 %	0.3
Zirconium octoate 6%	0.6
Antiskinning agent	<u>0.1</u>
Total	100.0
Pigment binder ratio	44 : 56
% Solids	60.0
Drying Set to touch, hrs.	1
Hard dry, hrs.	4
Cure @ 25 <sup>o</sup> C (for maximum strength)	7 days

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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 900
Flash point ° C. (Abel closed cup)	Above 200
Flammability	Combustible
Toxicity	Mild toxic
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	Collect solid material and burn under hood in incinerator.
Disposal and waste treatment	Spray into furnace under controlled conditions.

### STORAGE:

Synpol 900 should be stored in cool place under shade. The properties are so adjusted to have storage stability of minimum 6 months.

### PACKING:

25 kgs. polylined HDPE bags.

### 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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