



# SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE: EPOXY / 03.05

## Synpol 250

TYPE: High viscosity unmodified epoxy resin.

DESCRIPTION: Unmodified high viscosity epoxy resin based on Bisphenol A and Epichlorohydrine.

### SPECIFICATIONS:

1) Appearance	Water Clear Liquid
2) Density @ 25 <sup>o</sup> C.	1.16 - 1.17
3) Viscosity @ 25 <sup>o</sup> C. , poises	100 - 150
4) Colour (Gardner)	3 max.
5) Epoxide equivalent weight	170 - 220

**SOLUBILITY:** Synpol 250 is soluble in alcohols, esters, ketones, glycol ethers and aromatic hydrocarbons, and is insoluble in aliphatic hydrocarbons and water.

**COMPATIBILITY:** Synpol 250 is compatible with reactive diluents, plastisizers, and other modified epoxy resins. It can be cured with amine, anhydride, polyamide and other hardeners commonly used with epoxy resins.

**APPLICATIONS:** Synpol 250 finds applications in castings, encapsulations, floorings, potting, adhesives, laminating, reinforced plastics, filament windings, coatings & electrotechnical requirements. Synpol 250 is used in room temperature curing and heat curing systems for casting, potting, encapsulation of electrical and electronic components such as magnet coil, high voltage coils in the construction of transformers, instrument transformers, slip rings, solenoid coils, capacitors, switchgear components, high voltage insulators, electronic circuits, etc.

### SUGGESTIVE FORMULATION:

#### 1) Two pack general purpose adhesive.

Part I	kgs.	
Synpol 250	28.0	
Epoxy alcohol BGE	3.0	
Aerosil 200	2.0	
Methyl alcohol	1.0	
Titanium dioxide	1.0	
Calcium carbonate	<u>11.0</u>	46.0
Part II		
Synpol 140	18.0	
DMP 30	1.0	
Methyl alcohol	1.0	
Calcium carbonate	33.0	
Carbon black	<u>1.0</u>	<u>54.0</u>
	Total	100.0

#### 2) One pack heat cured paste adhesive.

Synpol 250	kgs
Synpol 250	64.0
Silica flour	16.0
Alumina powder	16.0
Hardener Dicy	<u>4.0</u>
Total	100.0

Grind all ingredients except Hardener Dicy till smooth paste on triple roll mill. Add Hardener Dicy without causing temperature to rise.

Mixing ratio by weight	46 : 54
Mixing ratio by volume	1 : 1
Pot life @ 25 <sup>o</sup> C, hrs.	1
Cure schedule @ 25 <sup>o</sup> C, hrs.	72

Pot life @ 25 <sup>o</sup> C, months	6 - 8
Cure schedule @ 120 <sup>o</sup> C., hrs.	1 - 2

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 250
Flash point ° C. (Abel closed cup)	255
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	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 250 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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