



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE: EPOXY / 03.06

Synpol 280

TYPE: Semisolid unmodified epoxy resin.

DESCRIPTION: Very high viscosity epoxy resin based on Bisphenol A & Epichlorohydrine.

SPECIFICATIONS:

1) Appearance	Very Light Yellow
2) Density @ 25° C.	1.18 - 1.19
3) Viscosity @ 25° C. ,(60% solution in Xylene)	18 – 25 seconds
4) Colour (Gardner)	4 max.
5) Epoxide equivalent weight	200-280

SOLUBILITY:

Synpol 280 is soluble in alcohols, esters, ketones, glycol ethers and aromatic hydrocarbons, and is insoluble in aliphatic hydrocarbons and water.

COMPATIBILITY:

Synpol 280 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 280 finds applications for high solid coatings, adhesives, epoxy putties and laminations. It is mainly used in coal tar modified coatings for its good compatibility with coal tar. Synpol 280 is also used in castings and electrical encapsulation systems for toughness and thermal shock resistance. Clear or pigmented coatings may be formulated, which gives thick films in a single application, there by reducing application cost and avoiding fire hazards associated with highly inflammable solvents.

SUGGESTIVE FORMULATIONS:

1) *Two pack coal tar modified maintenance coating.*

Part I	Base		
	Synpol 280	24.4	
	Talc	25.0	
	Aerosil 200	1.0	
	Coal tar pitch	36.6	
	Xylene	6.5	
	N-Butyl alcohol	<u>6.5</u>	100.0
Part II	Hardener		
	Hardener 222	3.0	
	N-Butyl alcohol	<u>3.0</u>	<u>6.0</u>
	Total		106.0

Mixing ratio of Base : Hardener :: 100 : 6

2) *High solids red-oxide anticorrosive brushing enamel.*

Part I	Base		
	Synpol 280	34.2	
	Epoxy phenol PGE	6.8	
	Red-oxide of iron	21.8	
	Blanc fixe	21.8	
	Aerosil 200	2.0	
	Phenol	3.4	
	Xylene	<u>10.0</u>	100.0
Part II	Hardener		
	Synpol 160	17.8	
	DMP 30	<u>2.2</u>	<u>20.0</u>
	Total		120.0

Mixing ratio of Base : Hardener :: 100 : 20

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 280
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	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 280 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 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.

Issue date: Jan. 2009

Riv-04