



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE : EPOXY / 03.03

Synpol 220

TYPE: Liquid epoxy resin modified with reactive diluent.

DESCRIPTION: Epoxy resin based on Bisphenol A and Epichlorohydrine modified with reactive diluent.

SPECIFICATIONS:

1) Appearance	Water Clear Liquid
2) Density @ 25 ^o C.	1.16 - 1.17
3) Viscosity @ 25 ^o C., poises	10 - 20
4) Colour (Gardner)	2 max.
5) Epoxide equivalent weight	170 - 200

SOLUBILITY: Synpol 220 is soluble in alcohols, esters, ketones, glycol ethers and aromatic hydrocarbons, and is insoluble in aliphatic hydrocarbons and water.

COMPATIBILITY: Synpol 220 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 220 finds applications in castings, encapsulations, floorings, potting, adhesives, laminating, reinforced plastics, filament windings, coatings & electrotechnical requirements. Synpol 220 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 FORMULATIONS:

1) Electric casting compound.

Part I		kgs.
Synpol 220		100
Part II		
Synpol 140		<u>50</u>
	Total	150

2) Coating application.

Part I		kgs
Synpol 220	<u>100</u>	100
Part II		
Hardener 340	45	
Hardener 350	<u>15</u>	<u>60</u>
	Total	160

Mix thoroughly at the time of application.

Pot life @ 25 ^o C, minutes	20 - 30
Mixed viscosity @ 25 ^o C, poises.	30 - 40
Cure schedule @ 25 ^o C, days	7

Above casting composition may be further modified with suitable fillers such as silica flour, or quartz sands to improve mechanical strength and to lower cost. Suitable quantity of fillers should be immediately added after mixing base and hardener, and mix filler thoroughly and should be consumed immediately.

Mix the above and apply within its pot life.

Pot life @ 25 ^o C, hrs.	2 - 3
Mixed viscosity @ 25 ^o C, poises.	20 - 30
Cure schedule @ 25 ^o C, days	10

Above coating after complete cure gives excellent resistance to organic acids and bases, with good mechanical properties, outstanding resistance to abrasion, cures completely even under water and cures at low temperatures without blushing and exudation.

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 220
Flash point ° C. (Abel closed cup)	115
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 220 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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