



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE: EPOXY / 03.02

Synpol 210

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 ⁰ C. | 1.16 - 1.17 |
| 3) Viscosity @ 25 ⁰ C. , poises | 20 - 30 |
| 4) Colour (Gardner) | 2 max. |
| 5) Epoxide equivalent weight | 170 - 200 |

SOLUBILITY:

Synpol 210 is soluble in alcohols, esters, ketones, glycol ethers and aromatic hydrocarbons.

COMPATIBILITY:

Synpol 210 is compatible with reactive and non reactive diluents, plastisizers, and other modified epoxy resins. It can be crosslinked with amine, anhydride, polyamide and other hardeners commonly used with epoxy resins.

APPLICATIONS :

Synpol 210 finds applicaions in castings, encapsulations, floorings, pottings, adhesives, laminatings, reinforced plastics, filament windings, coatings & electrotechnical requirments. Synpol 210 is used in room temperature curing systems for casting, potting, encapsulation of transformers, solenoid coils, capacitors, switchgear components, insulators, instrument transformers, electronic circuits etc. It is also used in heat curing system for casting, potting & encapsulations of electrical and electronic components such as magnet coil, high voltage coils in the construction of transformers, switchgear components, instrument transformers, slip rings, high voltage insulators etc.

SUGGESTIVE FORMULATION:

1) Machinable casting compound.

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|--------------------|-----------|
| | kgs. |
| Synpol 210 | 100 |
| Powdered aluminium | 200 |
| Hardener 111 | <u>10</u> |
| Total | 310 |

| | |
|---------------------------------------|---------|
| Pot life @ 25 ⁰ C, minutes | 10 - 20 |
| Cure @ 25 ⁰ C, hrs. | 24 - 36 |

2) Low exotherm potting compound with very good electrical and crack resistance properties

| | |
|--------------|-----------|
| | kgs. |
| Synpol 210 | 100 |
| Silica flour | 100 |
| Hardener PA | <u>30</u> |
| Total | 230 |

Mixing : Heat resin to 120⁰ C and add Hardener PA under stirring till it dissolves, add filler and cool to 60⁰ C.
Cure @ 120 - 130⁰ C, hrs. 16 - 24

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:

| | |
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| Product name | Synpol 210 |
| 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 vapors. |
| 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 210 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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