



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE : HARDENER / 04.19

Hardener 516

TYPE : Low viscosity, long pot-life Anhydride hardener for epoxy resins.

SPECIFICATIONS :

1) Appearance	Thin clear liquid.
2) Density @ 25 ⁰ C.	1.2 - 1.25
3) Viscosity @ 25 ⁰ C., poises	2 - 3
4) Mixing ratio with 100 parts of Synpol 200	90 - 100
5) Pot life @ 120 ⁰ C with Synpol 200, hrs	3
6) Suggested cure schedule @ 160 ⁰ C, hrs	4 - 6
7) Heat deflection temperature with Synpol 200, ⁰ C	140 - 170

COMPATIBILITY :

Hardener 516 is compatible with modified and unmodified liquid epoxy resins, reactive diluents, plastisizers, etc.

APPLICATIONS :

Hardener 516 has low viscosity, hence higher filler loading is possible. Further it has long pot-life, low volatility, non-skin irritant properties. During cure, it is less exothermic, but requires long and high temperature cure schedules to obtain optimum properties. Although use of accelerator such as DMP 30 overcomes above draw-backs to a certain extent.

Hardener 516 is one of the most important hardener used in electrical and electronic industries. It is heat-curing type, gives light color castings, has good mechanical and electrical properties and better high temperature stability than the amine cured systems. Hardener 516 is used as a curing agent for epoxy resins for impregnation of laminated cores & H.V. coils, sealing & dip coating for small motors, casting & potting of switch-gear components, bushing & instrument transformers, transformer winding, capacitors, solenoid coils, filament wound coils, etc. having exceptional stability at high temperature. The end products are noted for their exceptional electrical properties and their good resistance to heat, aging and chemicals.

SUGGESTIVE FORMULATION :

The following suggestions may be used as the basis of formulations

	kgs
Synpol 200	100
Hardener 516	100
DMP 30	0.5 - 1.0

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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	Hardener 516
Flash point ° C. (Abel closed cup)	147
Flammability	Combustible.
Toxicity	Moderate toxic. Avoid contact with skin.
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 keratitities. 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 :

Hardener 516 should be stored in cool place under shade. It is extremely hygroscopic and must therefore be stored in closed containers. 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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