



# SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE: Hardener / 04.21

## Hardener 460

TYPE : Modified aliphatic polyamine epoxy adduct.

DESCRIPTION : Ambient cure highly reactive general purpose hardener.

### SPECIFICATIONS :

1) Appearance	Light yellow viscous clear liquid
2) Specific gravity @ 25 <sup>0</sup> C.	1.04 - 1.06
3) Viscosity @ 25 <sup>0</sup> C., poises	50 - 100
4) Amine value by HClO <sub>4</sub> method, mg. KOH / gm.	800 - 830
5) Mixing ratio with 100 parts of Synpol 200	24 - 26
6) Pot life @ 25 <sup>0</sup> C with Synpol 200 of 100 gm mass, mts.	10 - 20
7) Peak exotherm temperature <sup>0</sup> C,	190 - 230
8) Cure schedule @ 25 <sup>0</sup> C., hrs.	16 - 24

### COMPATIBILITY :

Hardener 460 is compatible with all types of modified and unmodified liquid epoxy resins based on Bisphenol A & Bisphenol F, and all types of reactive diluents and plastisizers. It can also be used as co-hardeners with reactive polyamide resins.

### APPLICATIONS :

Hardener 460 is a rapid room temperature cure hardener for adhesives, casting and laminating applications.

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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 460
Flash point ° C. (Abel closed cup)	103
Flammability	Combustible.
Toxicity	Toxic. Avoid direct 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 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 :

Hardener 460 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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