



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE : HARDENER / 04.11

Hardener 372

TYPE : Aromatic amine.

DESCRIPTION : Condensation product based on aniline and formaldehyde for elevated temperature cure.

SPECIFICATIONS :

1) Appearance	Dark brown clear viscous liquid.
2) Density @ 25 ⁰ C.	1.11 - 1.12
3) Viscosity @ 25 ⁰ C., poises	15 – 30
4) Amine value, mg. KOH / gm. by HClO ₄ method	480 - 520
5) Mixing ratio with 100 parts of Synpol 200	25 - 27
6) Pot life @ 50 ⁰ C with Synpol 200 aprx. , minutes	150 - 200
7) Suggested cure schedule	a) 1 hr. @ 100 ⁰ C + 1 hr. @ 200 ⁰ C. Or b) 1 hr. @ 100 ⁰ C + 4 hrs. @150 ⁰ C.

COMPATIBILITY :

Hardener 372 is compatible with modified and unmodified liquid epoxy resins, reactive diluents, plastisizers, and other hardeners based on aliphatic and aromatic polyamines, polyamides etc.

APPLICATIONS :

Hardener 372 is very useful when blended with liquid epoxy resins like Synpol 200 in potting of components, castings and laminates having very good electrical properties, high heat and chemical resistance. It also finds uses in preparation of pre-impregnated laminates and in preparation of chemical resistant pipes and containers by filament winding process.

SUGGESTIVE FORMULATIONS :

1) High heat distortion casting compound.

	kgs
Synpol 200	100
Silica flour	100
Hardener 372	<u>27</u>
Total	227

2) One pack heat cured stick solder.

	kgs.
Synpol 200	50.0
Hardener 372	14.0
Powdered alumina	30.0
Aerosil 200	<u>6.0</u>
Total	100.0

Mixing : Heat hardener to 100⁰ C and slowly add epoxy resin under vigorous stirring, then mix filler and cool..

Pot life : 2 - 4 hours @ 30⁰ C.

Cure : 40 - 60 minutes @ 100⁰ C. + 1 hr. @ 200⁰ C.

The ingredients are ground to 60 mesh size under cool condition and compressed into void free stick. For bonding heat the surface with a torch until sufficient for the stick to melt and flow across the surface. Post cure will only be required for small masses of solder.

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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 372
Flash point ° C. (Abel closed cup)	214
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 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 372 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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