



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE : POLYAMIDE / 02.07

SYNPOL 160

TYPE : Reactive liquid polyamide resin

DESCRIPTION : Low viscosity reactive polyamide resin with high amine value.

SPECIFICATIONS :

1) Appearance	Clear yellowish free flowing liquid.
2) Density @ 25 ⁰ C.	0.95 - 0.98
3) Viscosity @ 25 ⁰ C., poises	4 - 10
4) Colour gardner	12 max.
5) Amine value (mg KOH/g) by HClO ₄ method.	390 – 450
6) H – Equivalent weight	100
7) Mixing ratio with 100 parts of Synpol 200	50
8) Typical gel time of 150 g mix @ 25 ⁰ C., minutes	120
9) Typical peak exotherm of 500 g mix	115 ⁰ C reached in 110 minutes
10) Typical cure schedule	a) 2 -7 days @ 25 ⁰ C. b) 2 hrs @ 60 ⁰ C. + 1 hr. @ 100 ⁰ C.

SOLUBILITY :

Synpol 160 is soluble in alcohols, glycol ethers, ketones and chlorinated hydrocarbons. It is partially soluble in esters and aliphatic hydrocarbons.

COMPATIBILITY :

Synpol 160 is compatible with all types of liquid epoxy resins, reactive diluents, plastisizers, pure phenolic resoles, and non-reactive polyamides.

APPLICATIONS :

Synpol 160 is room temperature curing polyamide resin having low viscosity, relatively long pot life and non-critical mixing ratio. When used in coating applications, it gives hard, non-glossy films. Its application with appropriate grades of liquid epoxy resins includes solvent free coatings, concrete repair compounds, adhesives, castings, laminates, pottings, encapsulations, impregnations, surface coatings, flooring, etc.

SUGGESTIVE FORMULATION :

Two pack room temperature curing maintenance coatings.

Part I	Base	kgs	
	Redoxide	27.6	
	Barytes micronised	27.6	
	Synpol 200	40.4	
	Phenol	<u>4.4</u>	100.0
Part II	Hardener		
	Synpol 160	18.5	
	D.M.P. 30	<u>1.5</u>	<u>20.0</u>
	Total		120.0

Mixing ratio by weight	Part I : Part II :: 100 : 20
Full cure @ 25 ⁰ C, days	7

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 160
Flash point ⁰ C. (Abel closed cup)	Above 125
Flammability	Combustible
Toxicity	Mild toxicity by exposure and inhalation due to presence of very small quantity of polyamines.
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 160 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 180 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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