



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE : POLYAMIDE / 02.05

SYNPOL 140

TYPE : Reactive polyamide resin

DESCRIPTION : Low viscosity reactive polyamide resin with free amino groups.

SPECIFICATIONS :

1) Appearance	Clear yellowish brown viscous liquid.
2) Density @ 25 ⁰ C.	0.95 - 0.98
3) Viscosity @ 25 ⁰ C. , poises	100 - 160
4) Colour gardner	12 max.
5) Amine value (mg KOH/g) by HClO ₄ method.	350 - 410
6) Mixing ratio with 100 parts of	
1) Synpol 200	35 - 55
2) Synpol 450 XX	20 - 25

SOLUBILITY : Synpol 140 is soluble in aromatic hydrocarbons, higher alcohols, glycol ethers and chlorinated hydrocarbons. It is partially soluble in esters, and ketones and is insoluble in water and aliphatic hydrocarbons.

COMPATIBILITY : Synpol 140 is compatible with most of the pure phenolic resins, non-reactive polyamides, and all grades of epoxy resins and reactive epoxy diluents.

APPLICATIONS : Synpol 140 finds applications along with liquid epoxy resins for high build solventless coatings with very good chemical and water resistance. It is also used as hardener with liquid epoxy resins for adhesives, electrical castings, fiber glass laminates, potting and encapsulation for electrical and electronic circuits to give moisture and water resistance and protection from mechanical stresses.

SUGGESTIVE FORMULATIONS :

1) Solventless coating

Part I	kgs.	
Titanium dioxide Rutile	6.3	
Phthalocyanine Blue	0.6	
Aerosil 200	0.25	
Synpol 200	68.25	
Phenol	<u>6.6</u>	82.0
Part II		
Synpol 140	15.2	
DMP 30	<u>2.8</u>	<u>18.0</u>
Total		100.0

2) Epoxy flooring composition giving excellent chemical resistance and mechanical properties.

Part I	kgs.	
Synpol 200	100	
Epoxy alcohol BGE	<u>10</u>	110
Part II		
Synpol 140	45	
D.M.P. 30	2	
Dimethyl amino ethanol	<u>3</u>	50
Part III		
Silica floor	100	
Quarts silica sand having graded size of 0.1 - 2.0 mm	<u>740</u>	<u>840</u>
Total		1000

Mix Part I & Part II shortly before use.

Specific gravity @ 25 ⁰ C	Part I aprx.	1.29
	Part II aprx.	0.98
Viscosity of mixed system @ 25 ⁰ C, cps.		3000
Pot life @ 25 ⁰ C., minutes		30

Application : To clean fresh R.C.C. floor apply one primer coat using Part I & Part II only. Then after 24 Hrs. apply trowelling composition consisting of Part I, Part II & Part III of 5 to 10. m.m. thickness
Cure schedule : 7 days minimum

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 140
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 ventilation.
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 140 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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