



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE : POLYAMIDE / 02.02

SYNPOL 115

TYPE : Reactive polyamide hardener

DESCRIPTION : High viscosity reactive polyaminoamide hardener with free amino groups.

SPECIFICATIONS :	Synpol 115	Synpol 115 (70% in xylene)
1) Appearance	Clear yellowish brown highly viscous resin.	
2) Density @ 25 ⁰ C.	0.97 - 0.98	0.94 - 0.95
3) % Solids @ 120 ⁰ C for 2 hrs	----	68 - 72
4) Solvent	----	Xylene
5) Viscosity @ 40 ⁰ C. , poises	500 - 750	--
Viscosity @ 25 ⁰ C. , poises	2500 -- 3500	8 - 15
6) Colour gardner	12 max.	12 max.
7) Amine value (mg KOH/g) by HClO ₄ method.	220 - 250	140 – 180 (of supply)
8) Mixing ratio with		
1) Synpol 200	65 - 100	95 - 140
100 parts of : 2) Synpol 450 XX	30 - 40	45 - 60

SOLUBILITY : Synpol 115 is soluble in aromatic hydrocarbons, higher alcohols, glycol ethers and chlorinated hydrocarbons. It is partially soluble in methanol, esters, and ketones and is insoluble in water.

COMPATIBILITY : Synpol 115 is compatible with most of the pure phenolic resins, non-reactive polyamides, and all grades of epoxy resins and reactive epoxy diluents.

APPLICATIONS : Synpol 115 is used as a hardener with appropriate grades of epoxy resins in the manufacture of protective coatings required for adverse atmospheric conditions and adhesives for industrial applications.

SUGGESTIVE FORMULATIONS :

1) Red epoxy enamel.

2) In-situ hard and smooth pipe coating giving corrosion resistance and improved flow rates.

Part I	kgs.	
Synpol 450 XX	30.2	
Redoxide of iron	20.4	
M.I.B.K.	4.2	
Cellosolve	3.2	
Synpol SK-10	1.2	
Aerosil 200	<u>0.8</u>	60.0
Part II		
Synpol 115	17.0	
Xylene	15.3	
M.I.B.K.	3.8	
Cellosolve	<u>3.9</u>	<u>40.0</u>
Total		100.0

Part I	kgs.	
Red lead	14.0	
Red oxide	7.0	
Aerosil 200	2.2	
Synpol 115	19.9	
Toluene		5.8
Isopropanol	<u>1.1</u>	50.0
Part II		
Synpol 450 XX	46.0	
M.E.K.	<u>4.0</u>	<u>50.0</u>
Total		100.0

Mixing ratio by weight	Part I : Part II :: 60 : 40
% Solids	62.0
Epoxy hardener ratio	57 : 43
Pigment binder ratio	37 : 63
Pot life @ 25 ⁰ C., aprx. hrs.	24
Cure schedule @ 25 ⁰ C., days	7

Mixing ratio by weight	Part I : Part II :: 1 : 1
Specific gravity @ 25 ⁰ C	Part I aprx. 1.5 Part II aprx. 1.05
Viscosity of mixed system @ 25 ⁰ C, cps.	3000
Pot life @ 25 ⁰ C., aprx. hrs.	16
	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 115	Synpol 115 (70% in xylene)
Flash point ⁰ C. (Abel closed cup)	Above 125	30
Flammability	Combustible	Moderate fire risk
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 115 & 115 (70% in xylene) 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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