



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE: AMINO / 01.01

Synpol 1001

TYPE: Butylated urea formaldehyde resin

DESCRIPTION: Medium reactivity high solids resin with good compatibility.

SPECIFICATIONS:

1) Appearance	Colorless Clear Liquid
2) Density @ 25 ^o C.	1.03 - 1.05
3) % Solids @ 105 ^o C. for 2 hrs.	63 - 67
4) Solvent	N-Butyl Alcohol
5) Viscosity @ 25 ^o C. , poises (gardner)	20 - 30
6) % Free formaldehyde of supply	2 Max.
7) Acid value of supply, mg KOH / gm	3 Max.
8) Mineral spirit tolerance (ml/10g resin)	30 - 50

SOLUBILITY:

Synpol 1001 is soluble in alcohols, esters, ketones, glycol ethers, aromatic hydrocarbons, chlorinated hydrocarbons. It has limited solubility in aliphatic hydrocarbons and is insoluble in water.

COMPATIBILITY:

Synpol 1001 is compatible with all short oil alkyds, oil free polyesters, medium and high molecular weight epoxy resins, epoxy esters, thermo-setting acrylics, P.V.B. resins, nitro-cellulose and ester type of plasticizers.

APPLICATIONS:

Synpol 1001 is mainly used as a cross-linker with short oil alkyd resins for all general purpose baking enamels giving adequate gloss, hardness, flexibility, adhesion and impact resistance. It is used in the production of a wide variety of paints including industrial stoving primers and enamels. Further it gives low cost finishes and has particularly good adhesion on metal substrate.

SUGGESTIVE FORMULATIONS:

1) Economical white baking enamel

	kgs.
Titanium dioxide anatase	18.3
China clay	5.1
Blumer D-140 (70% in xylene)	35.2
Synpol 1001	9.5
Xylene	29.6
N-Butyl alcohol	<u>2.3</u>
Total	100.0

% Solids	54.2
Pigment binder ratio	43 : 57
Alkyd UF ratio	80 : 20
Stoving schedule @ 120 ^o C, minutes	30

2) Pale green metal laboratory furniture coating

	kgs.
Titanium dioxide anatase	15.5
Chromium oxide green	3.5
Synpol 1800	18.0
Synpol 1001	14.0
Cellosolve acetate	25.0
Xylene	<u>24.0</u>
Total	100.0

% Solids	46: 0
Pigment binder ratio	41 : 59
Epoxy UF ratio	66 : 34
Stoving schedule @ 150-180 ^o C, minutes	20-30

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 1001
Flash point ° C. (Abel closed cup)	35
Flammability	Highly flammable
Toxicity	Moderately toxic by exposure and inhalation due to vapours of n-Butyl alcohol and residual formaldehyde.
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:

Due to thermosetting nature of amino resins they 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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