



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE: AMINO / 01.02

Synpol US-8

TYPE: Butylated urea formaldehyde resin

DESCRIPTION: Medium - High reactivity resin with low solids and viscosity for easy handling.

SPECIFICATIONS:

1) Appearance	Colorless Clear Liquid
2) Density @ 25 ⁰ C.	1.01 - 1.03
3) % Solids @ 105 ⁰ C. for 2 hrs.	57- 61
4) Solvent	n-Butyl Alcohol / Xylene
5) Viscosity @ 25 ⁰ C. , poises (gardner)	10 - 20
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 US-8 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 US-8 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 US-8 is mainly used as a cross-linker with short oil alkyd resins for low temperature baking enamels giving adequate gloss, hardness, flexibility, adhesion and impact resistance. It is also used in two pack and one pack acid cured screen and wood lacquers. High electrical resistivity makes the resin especially suitable for electrostatically applied finishes.

SUGGESTIVE FORMULATION:

High resistivity lacquer for electrostatic spray

	kgs.
Titanium dioxide anatase	30.0
Blumer C-132 (70% in Xylene)	27.2
Synpol US-8	21.1
Xylene	<u>21.7</u>
Total	100.0
Pigment binder ratio	50 : 50
Alkyd UF ratio	60 : 40
Thinner for spray viscosity	
Xylene : N-Butyl alcohol ratio	4 : 1
Stoving schedule @ 120 ⁰ C, minutes	30
Resistivity @ 25 ⁰ C, Ohm cm (of 25 seconds reduced viscosity)	7.9x10 ⁷

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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	Synpol US-8
Flash point ° C. (Abel closed cup)	26.5
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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