



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE: AMINO / 01.06

Synpol M-70

TYPE: Butylated melamine formaldehyde resin

DESCRIPTION: Medium reactivity and full compatibility with medium and long oil alkyd resins.

SPECIFICATIONS:

1) Appearance	Colorless Clear Liquid
2) Density @ 25 ^o C.	1.01 - 1.03
3) % Solids @ 105 ^o C. for 2 hrs.	66 - 71
4) Solvent	n-Butyl Alcohol
5) Viscosity @ 25 ^o C. , poises (gardner)	10 - 20
6) % Free formaldehyde of supply	3 Max.
7) Acid value of supply, mg KOH / gm	3 Max.
8) Mineral spirit tolerance (ml/10g resin)	Infinite

SOLUBILITY: Synpol M-70 is soluble in alcohols, esters, ketones, glycol ethers, aromatic & aliphatic hydrocarbons and is insoluble in water.

COMPATIBILITY: Synpol M-70 is compatible with all short oil, medium oil and long oil alkyds, epoxy esters, thermo-setting acrylics and ester type of plasticizers.

APPLICATIONS: Synpol M-70 due to its infinite solubility in mineral spirit and compatibility with medium and long oil alkyds find uses for general purpose low cost stoving primers and coatings. It may also be used for clear over print coatings for printed containers used for filling all industrial and domestic products . Stoved coatings based on Synpol M-70 gives high gloss , adequate hardness, flexibility and adhesion. It has additional applications for low temperature baking top coatings for metallised plastic articles and also as primer coat before metallisation to improve adhesion. It may also be used as flow control agent to improve gloss and levelling in air drying finishes based on alkyd resins.

SUGGESTIVE FORMULATIONS:

1) Economical olive green stoving enamel

	kgs.
Synthetic iron oxide yellow	6.0
Lamp black	1.0
Titanium dioxide anatase	1.0
Iron blue	0.1
Blumer D-150 (60% in M.T)	58.0
Synpol M-70	10.0
N-Butyl alcohol	4.5
Xylene	3.3
White spirit	16.0
Manganese naphthanate 6%	<u>0.1</u>
Total	100.0
% Solids	49.0
Pigment binder ratio	16.7 : 83.3
Alkyd MF ratio	85 : 15
Stoving schedule at 120 ^o C, minutes	30

2) Clear low-bake lacquer

	kgs.
Blumer D-140 (70% in Xylene)	57.0
Synpol M-70	15.0
Xylene	<u>28.0</u>
Total	100.0
% Solids	50.0
Alkyd MF ratio	80 : 20
Stoving schedule at 90 ^o C, minutes	30
Add 0.06 % of cobalt drier on solid alkyd to get increased hardness during post cure at room temperature.	

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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 M-70
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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