



SYNPOL PRODUCTS PRIVATE LTD.

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

PRODUCT CODE: AMINO / 01.04

Synpol MF-310

TYPE: Butylated melamine formaldehyde resin

DESCRIPTION: Medium reactivity resin with wide compatibility.

SPECIFICATIONS:

1) Appearance	Colorless Clear Liquid
2) Density @ 25 ^o C.	1.01 - 1.03
3) % Solids @ 105 ^o C. for 2 hrs.	57 - 61
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	1 Max.
8) Mineral spirit tolerance (ml/10g resin)	35 - 75

SOLUBILITY:

Synpol MF-310 is soluble in alcohols, esters, ketones, glycol ethers, aromatic hydrocarbons. It has limited solubility in aliphatic hydrocarbons and is insoluble in water.

COMPATIBILITY:

Synpol MF-310 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, some of vinyl copolymers, nitro-cellulose, cellulose acetate butyrate and ester type of plasticizers.

APPLICATIONS:

Synpol MF-310 is mainly used for high gloss general purpose stoving enamels based on oxidising and non oxidising short and medium oil modified alkyd resins. It has very good paint stability. Due to its excellent range of compatibilities, this resin is suitable for use with wide range of film forming polymers such as Synpol 450 XX to make D.G. lacquer for coating metallised polyester films.

SUGGESTIVE FORMULATIONS:

1) Interior metal finishing baking enamel

	kgs.
Titanium dioxide anatase	20.0
Lamp black	0.1
Blumer D-140 (70% in xylene)	34.3
Synpol MF-310	10.0
Xylene	30.6
N-Butyl alcohol	<u>5.0</u>
Total	100.0

% Solids	50: 0
Pigment binder ratio	40 : 60
Alkyd MF ratio	80 : 20
Stoving schedule @ 120 ^o C, minutes	30

2) Epoxy ester amino based water resistant white enamel for hospital and lab appliances

	kgs.
Titanium dioxide rutile	25.0
Synpol 6040	42.0
Synpol MF-310	15.0
N-Butyl alcohol	4.5
Xylene	<u>13.5</u>
Total	100.0

%Solids	55:0
Pigment binder ratio	44 : 56
Epoxy ester MF ratio	70 : 30
Thinner (Xylene : Butanol)	80 : 20
Stoving schedule @ 120 ^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 MF-310
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 keratitities. 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 vapors.
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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