



PRODUCT CODE : PHENOLIC / 07.06

Synpol PR-10/B

TYPE : Heat reactive phenol formaldehyde resin.

DESCRIPTION : Para tertiary butyl phenol formaldehyde resole resin.

SPECIFICATIONS :

1) Appearance	Clear colourless solid resin in lump form.
2) Density @ 25 ⁰ C.	1.018 - 1.022
3) Viscosity @ 25 ⁰ C., 60 % solution in toluene, poises (gardner)	1 - 2
4) % Methylol content	12 - 14
5) Sinter point, ⁰ C by capillary method	60 – 80
6) Acid value, mg KOH / gm	70 - 100

SOLUBILITY :

Synpol PR-10/B is soluble in aromatic hydrocarbons, higher alcohols, esters and ketones.

COMPATIBILITY :

Synpol PR-10/B is compatible with all drying oils, polymerised oils, long oil alkyd resins, epoxy resins, chlorinated rubber and polyvinyl butyrals.

APPLICATIONS :

Synpol PR-10/B is used in many applications such as in spar varnishes for protection of wood, in insulating varnishes for electrical motor windings and in formulating curing agent for adhesives based on neoprene rubber. Synpol PR-10/B finds applications in marine enamels, structural metal primers, chemical resisting finishes, aluminium and bronze vehicles.

SUGGESTIVE FORMULATION :

Tung oil based spar varnish.

	kgs.
Tung oil	100.0
A.R. linseed oil	50.0
Synpol PR-10/B	50.0
Mineral turpentine	130.0
Lead drier 18 %	5.5
Cobalt drier 6 %	1.5
Total	<u>337.0</u>

Procedure : Charge Synpol PR-10/B and tung oil to resin kettle. Heat it to 250⁰ C as fast as possible and hold for 15 - 20 minutes. Stop heating, add linseed oil, cool rapidly and thin immediately with mineral turpentine. Add driers next day.

Continued.....

MATERIAL SAFETY DATA :

Product name	Synpol PR-10/B
Flash point ° C. (Abel closed cup)	Above 200
Flammability	Moderate fire risks.
Toxicity	Moderately toxic.
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	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 Synpol PR-10/B, it should be stored in cool place under shade. The properties are so adjusted to have storage stability of minimum 6 months.

PACKING :

25 kgs. polylined HDPE bags.

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.

Issue date : Jan. 2009

Riv-04