



PRODUCT CODE : PHENOLIC / 07.07

Synpol PR-20/B

TYPE : Heat reactive alkyl phenol formaldehyde resin.

DESCRIPTION : Para tertiary butyl phenol formaldehyde resole resin.

SPECIFICATIONS :

1) Appearance	Clear pale brown, amber or pinkish brown solid resin in lump form.
2) Density @ 25 ^o C.	1.085 - 1.105
3) Viscosity of 60 % solution in toluene @ 25 ^o C, poise	1 - 2
4) % Methylol content	12 - 14
5) Sinter point, ^o C by capillary method	70 – 90
6) Acid value, mg KOH / gm	70 - 100
6) Solubility in toluene	Excellent

SOLUBILITY :

Synpol PR-20/B is soluble in aromatic hydrocarbons, higher alcohols, esters, ketones and partially soluble in aliphatic hydrocarbon.

COMPATIBILITY :

Synpol PR-20/B is compatible with all drying oils, polymerized oils, long oil alkyd resins, epoxy resins, chlorinated rubber and polyvinyl butyrals.

APPLICATIONS :

Synpol PR-20/B has been designed specially for upgrading neoprene based contact adhesive in terms of thermal stability. The resin can be directly mixed into rubber solutions. Synpol PR-20/B is used to raise the melting point of neoprene. Neoprene has a low melting point and its bond strength is greatly reduced at temperature over 30^o C, which are normally encountered in tropical countries. Synpol PR-20/B helps retain the bond strength at higher temperatures up to 60^o C. Synpol PR-20/B has a stabilizing effect on neoprene adhesives. It does not react with zinc oxide. The resin reacts with magnesium oxide to form a modified resin and a correctly formulated adhesive incorporating Synpol PR-20/B would give bonds which show no deterioration at temperatures up to 60^o C.

SUGGESTIVE FORMULATION :

Neoprene based contact adhesive

	kgs.
Neoprene A.C. or W	100
Magnesium oxide	4
Synpol PR-20/B	30 - 45
Toluene	150

Procedure : Neoprene should be compounded with the dry ingredients - magnesium oxide, pigments, etc. by cold milling. The subsequent mixture should be dissolved cold with the Synpol PR-20/B in toluene. The resin should not be milled into the base compound.

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MATERIAL SAFETY DATA :

Product name	Synpol PR-20/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-20/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.

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