



RISHABH RESINS & CHEMICALS

(AN ISO 9001:2015 CERTIFIED COMPANY)

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TECHNICAL DATA SHEET OF SILKYD - 300R

(CARDANOL MODIFIED EPOXY NOVOLAC PHENOLIC RESINS)

1. **INTRODUCTION:** Silkyd 300R is a Thermoset Self Curing Novolac Phenolic Resin modified with Cardanol oil. They are transparent Golden Yellow in Colour. They are Compatible with Polyester Isophthalic Resin, Long oil Alkyd, Short oil Alkyd, Chain Stop Alkyd Resin, Rosinated DCO Alkyd Resin and Hydrogenated Linseed Oil for making High Performance Paints & Primers. Silkyd 300R are also used in Insulating Varnish Industries where High Glass Transition Temp (TG) is required for Heavy Electrical operations. They are also used for making Bituminous Paints, Marine Paints Anti-fouling Paint, Anti-corrosive Coating for Metals, Wood Preservative and Wood Coating Shiner with good Weather and Moisture Resistance properties. Above resin can also be used as a Epoxy Resin Hardener which gives Hardest Composite Laminates with Talcum, Kaolin, Asbestos Powder, Glass Wool, Rock Wool, Mica, Dolomite and Di-calcium phosphate.

2. **SOLUBILITY:**

- A. 30% Soluble in IPA.
- B. 70% Soluble in Aromatic Solvent MTO
- C. 100% Soluble in Toluene, Xylene, Butyl Cellosolve, C9, Diacetone & DMC (Dimethyl Carbonate).

3. **CURING:** Very less Driers are required like Manganese, Zirconium and Cobalt.

Surface dry up to 20 minutes.

4. **SPECIFICATIONS:**

PROPERTIES	DESCRIPTION
Colour	Clear Golden Yellow
Consistency	Thick Viscous transparent Liquid
Viscosity @ 50% Solids in B-4 Ford Cup in seconds with Xylene	150 (+/-) 30 seconds
Non Volatile matter	60 (+/-) 2.5%
Drying Time with: Zirconium – 0.2% to 0.5% Cobalt – 0.2% to 0.5%	Surface dry:- Less than 20 minutes

6. **FILM CHARACTERISTICS:** With above driers it gives uniform Shining Glossy film which has no conductivity after Evaporation of solvent.