

TECHNICAL DATA SHEET

SYNOLAC® 70S-50

Short Oil Alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 70S-50 is a high molecular weight short oil alkyd resin based on vegetable fatty acids designed for the formulation of 2 pack polyurethane systems.

SYNOLAC® 70S-50 is a general purpose resin, with broad application field, suitable for polyurethane wood sealers and topcoats, providing fast sanding and good recoatability at low crosslinking levels. It is recommended for clear and pigmented coatings for the furniture industry.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 150°C, 1gm, 1hr)	48 - 52 %	ISO 3251
Viscosity (30% Xylene, Ford Cup B-4) (at 30°C)	60 - 80 s	
Color	3 max Gardner	ISO 4630
Acid value	25 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Volatile	Xylene / MIBK	
Density (at 20°C)	1 g/ml	ISO 2811
Fatty acid type	Vegetable Fatty Acid	
Fatty acid content	32 %	
Hydroxyl content	4.8 %	

Acid value and/or Hydroxyl value quoted relative to solid resin

¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS

Coatings & Inks

- Industrial Coating
 - Automotive - Refinish
 - General Industry
 - Wood Furniture

PERFORMANCE BENEFITS

- Fast Sanding
- Good Recoatability

SYNOLAC® 70S-50

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOLAC® 70S-50 can be used as a sole binder or in combination with high solids alkyds in order to fit the different application requirements. From 60 to 80% is the crosslinking level recommended for basecoats. It is recommended to crosslink it with an aromatic adduct / isocyanate ratio between 2:1 to 4:1

SOLUBILITY

SYNOLAC® 70S-50 is soluble in aromatic hydrocarbons, esters, ketones and glycol ethers and has a limited solubility in aliphatic hydrocarbons and alcohols.

COMPATIBILITY

SYNOLAC® 70S-50 is compatible with most short oil alkyds resins, nitrocellulose, phthalate plasticizers, maleic resins, urea and melamine resins and polyisocyanates.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 70S-50 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 30°C. Exposure to direct sunlight should be avoided. In the above mentioned storage conditions the shelf life of the resin will be from the date of manufacturing.

Shelf Life (Months): 12

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