

SYNOLAC[®] 70S-50

INDUSTRIAL WOOD

ARKEMA COATING RESINS

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.

Polymer Type

- Solvent borne Alkyd

Sales Specifications	% Solid Content at (125°C / 1gm / 1hr), (ISO 3251)	48 - 52
	Viscosity in second on Ford Cup B-4 at 30°C (30% in Xylene)	60 - 80
	Colour, Gardner scale (ISO 4630)	3 max
	Acid value, mg KOH/g (ISO 2114)	25 max

Other Characteristics¹	Volatile	Xylene / MIBK
	Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.0
	Type of fatty acid	Vegetable fatty acids
	Fatty Acid content, %	32
	Hydroxyl Content, %	4.8

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

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

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

Formulation Guidelines

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.

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Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC[®] 70S-50 can present some haziness upon storage at ambient temperature. SYNOLAC[®] 70S-50 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature above 25°C to minimize chance of haziness.

Exposure to direct sunlight should be avoided.

Under the above mentioned storage conditions the shelf life of the resin will be 12 months from the date of manufacturing.

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Arkema Chemicals India Pvt Ltd
D43 (1), Trans Thane Creek, MIDC Industrial Area, Shiravane, Nerul,
Navi Mumbai 400706, India.

Telephone: +91 22 6737 7100
Fax: +91 22 2768 7998

ARKEMA
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