

TECHNICAL DATA SHEET

SYNOLAC® 82X-70

Short Oil Alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 82X-70 is a short oil oxidising alkyd developed for use in a wide range of industrial; vehicle refinishing fast air-drying and stoving applications. This resin can be used in two-pack applications.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 150°C, 1gm, 1hr)	68 - 72 %	ISO 3251
Viscosity (50% Xylene, Ford Cup B-4) (at 30°C)	120 - 130 s	
Color	8 max Gardner	ISO 4630
Acid value	12 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Volatile	Xylene	
Density (at 20°C)	1.05 g/ml	ISO 2811
Fatty acid type	Linoleic	
Fatty acid content	38 %	

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
 - Marine
 - Protective Coating
 - Rail
 - Industrial Wood Finishes

PERFORMANCE BENEFITS

- Air drying, low bake and two-pack from a single base resin
- Excellent color retention
- Good gloss retention
- Good adhesion on metal surface

SYNOLAC® 82X-70

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SOLUBILITY:

SYNOLAC® 82X-70 is completely soluble in aromatic hydrocarbons, ketones and esters. It is partially soluble in aliphatic hydrocarbon and alcohols. Solvents containing alcoholic groups are not used when using it for two-pack systems.

COMPATIBILITY:

SYNOLAC® 82X-70 is compatible with all short oil alkyd, some medium oil alkyd and amino resins. It is also compatible with isocyanate adduct. It is not compatible with long oil alkyds, chlorinated rubber, NC, and vinyl resins.

DRIERS:

In air drying systems 0.05%CO, 0.5%Pb, 0.1%Ca, calculated as metal on solid resins content are recommended. Typical Drying time using above combination are as follows:

S.D. - 15 - 20 min.

T. D. - 90 - 120 min.

H. D. - O/N.

In low bake system recommended temperature is 80 - 90°C and level of Melamine Formaldehyde is 5-15% on solid resin.

-On solids basis : SYNOLAC® 82X-70/Desmodur N-75 = 800/191 & SYNOLAC® 82X-70/Desmodur N-75 = 800/242

-On solution basis : SYNOLAC® 82X-70/Desmodur L-75 = 1150/255 & SYNOLAC® 82X-70/Desmodur L-75 = 800/323

S.D. - 5 - 10 min.

T.D. - 45 -60 min.

H.D. - 6 -8 Hrs.

SYNOLAC® 82X-70 is an ideal choice for industrial grade fast drying enamel and undercoat. It is also use for vehicle refinishes.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 82X-70 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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