

TECHNICAL DATA SHEET

SYNOLAC® 72S -55

Medium oil alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 72S-55 is a medium oil oxidising alkyd developed for use in a wide range of vehicle refinishing fast air-drying and stoving applications. This resin can be used in two-pack applications also.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 150°C, 1gm, 1hr)	53 - 57 %	ISO 3251
Viscosity (Brookfield viscometer) (at 25°C)	40 -50 P	
Color	8 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Volatile	MTO / Xylene	
Density (at 20°C)	0.96 g/ml	ISO 2811
Fatty acid type	Linoleic	
Fatty acid content	48 %	

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 - OEM
 - Automotive - Refinish
 - General Industry

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® 72S -55

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SOLUBILITY:

SYNOLAC® 72S-55 is completely soluble in aliphatic and aromatic hydrocarbons, ketones and esters. It has limited solubility in alcohols. Solvents containing alcoholic groups are not used when using it for two-pack systems.

COMPATIBILITY:

SYNOLAC® 72S-55 is compatible with most long and medium oil length alkyds, some butylated and isobutylated amino resins. It is also compatible with isocyanate adduct like Desmodur Z4167.

It is not compatible with short 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. - 25 – 30 min.

T. D. - 120 – 150 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. Melamine formaldehyde with high turpentine tolerance is recommended in two-pack systems, recommended isocyanate adduct is Desmodur Z4167 and the recommended ratios is 3:1 on solid resin base. The typical drying time is,

S.D. - 10 - 15 min.

T.D. - 60 -90 min.

H.D. - 6 -8 Hrs.

SYNOLAC® 72S-55 is use for vehicle refinishes, industrial grade fast drying enamel and undercoat.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 72S -55 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 Durability (Months): 12

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