

## TECHNICAL DATA SHEET

# SYNOLAC® 79S-55

Medium oil alkyd

### PRODUCT APPLICATION DETAILS

SYNOLAC® 79S-55 is a medium oil chain stopped alkyd resin based on soyabean fatty acid. SYNOLAC® 79S-55 is recommended for use in general purpose high quality air drying and force drying industrial finishes.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 150°C, 1gm, 1hr)	53 - 56 %	ISO 3251
Viscosity (Brookfield viscometer) (at 25°C)	60 - 80 P	
Color	6 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Volatile	MTO	
Density (at 20°C)	1.06 g/ml	ISO 2811
Fatty acid type	Linoleic	
Fatty acid content	49 %	

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

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

### MARKETS & APPLICATIONS

#### Coatings & Inks

- Industrial Coating
  - General Industry
  - Protective Coating
  - Wood Furniture
  - Rigid Packaging Metal (Can & Others)

### PERFORMANCE BENEFITS

- Excellent gloss and good flow
- Excellent gloss retention
- Non yellowing property
- Excellent color retention

# SYNOLAC® 79S-55

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

This resin is used in high quality non-yellowing synthetic enamels.

### SOLUBILITY:

SYNOLAC 79S-55 is soluble in aliphatic and aromatic hydrocarbons ketones and esters.  
Limited solubility in alcohols.

### COMPATIBILITY:

SYNOLAC 79S-55 is compatible with long and medium oil alkyds, drying oils and varnishes, Chlorinated rubber and Urethane alkyd. Partially compatible with short oil alkyd.

### DRIERS:

For Air Drying applications recommended drier combination is as Follows; 0.05% Cobalt, 0.1% Calcium and 0.5% Lead calculated on metal based on resin solids. In lead free systems, 0.2 - 0.6% of Zirconium can be used as an alternative to Lead.

Typical Drying time using above combination are as follows:

S.D. - 1 – 1.5 hrs.

T. D. - 4 – 5 hrs.

H. D. - O/N.

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNOLAC® 79S-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 (Months): 12

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