

# SYNOLAC<sup>®</sup> 72S-55

ARKEMA COATING RESINS

**Product Application details** SYNOLAC<sup>®</sup> 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.

**Performance**

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

**Polymer Type**

- Solvent borne Alkyd

<b>Sales Specifications</b>	% Solid Content (at 150°C, 1gm, 1hr.), (ISO 3251)	53 - 57
	Viscosity in Poise at 25°C, Brookfield Viscometer	40 - 50
	Colour, Gardner scale (ISO 4630)	8 Max
	Acid value, mg KOH/g (ISO 2114)	10 Max

<b>Other Characteristics</b>	Volatile	MTO/Xylene
	Oil Length	48
	Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.96
	Hydroxyl Content	1.80
	Hydroxyl Equivalent Weight	960
	Oil or Fatty Acid Type	Linoleic

Note: Acid value, hydroxyl value and oil length 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

## Formulation Guidelines

### RECOMMENDATIONS FOR USE

#### SOLUBILITY:

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

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**Product Safety**

Please refer to the corresponding Safety Data Sheet

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**Storage & 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. 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**  
INNOVATIVE CHEMISTRY