

# SYNOLAC® 8049 S 55

GENERAL INDUSTRY

ARKEMA COATING RESINS

## Product Application details

SYNOLAC® 8049 S 55 is a fast drying medium oil alkyd resin based on colour retentive fatty acids. SYNOLAC® 8049 S 55 can be used preferably as air drying single layer and topcoats, e.g., for machinery paints, transport finishes and general industrial paints. The through drying and gloss can be improved by combination with hard resins (e.g. maleic resins).

## Performance Benefits

- Fast drying
- Very good through drying
- Very high gloss
- Good adhesion
- Good flexibility
- Good exterior gloss retention

## Polymer Type

- Solventborne alkyd

## Sales Specifications

Solid Content at 125°C, % (ISO 3251)	54 -56
Viscosity at 25°C, mPa.s (ISO 3219)	3500 - 5500
Colour, Gardner scale (ISO 4630)	5 max
Acid value, mg KOH/g (ISO 2114)	12 - 15

## Other Characteristics<sup>1</sup>

Volatile	Low aromatic white spirit / methoxypropanol 85:15
Flash point, °C (ISO 3679)	30
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.93
Type of fatty acid	soya fatty acid
Fatty Acid content, %	49

Note: 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

## Formulation Guidelines

### DRIERS

As a starting point we recommend the addition of 0.02% - 0.06% cobalt, 0.2% - 0.5% zirconium and 0.1% - 0.3% calcium (metal on solid resin).

Depending on the formulation (clear, pigmented, thixotropic, etc...) and on the application, the loading of each drier may be increased or reduced in order to achieve the appropriate drying/hardness profile.

The use of antiskinning agent is essential to prevent in-can skinning of the finished product.

### SOLUBILITY

SYNOLAC® 8049 S 55 is well soluble in aliphatic/aromatic hydrocarbons, esters, glycol ethers and glycol ether esters. It is mostly insoluble in alcohols.

### COMPATIBILITY

SYNOLAC® 8049 S 55 is well compatible with long and medium oil alkyds, with rosin esters, maleic and ketone resins and also modified phenolic resins. It is mostly incompatible with non plastified melamin resins, chlorinated rubber, epoxy esters and short oil alkyds. It is not compatible with non plastified urea formaldehyd resins and PVC-copolymers.

SYNOLAC® 8049 S 55 is compatible with all commonly used pigments. For strong basic pigments, however, the storage stability should be checked prior to use.

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**Product Safety**

Please refer to the corresponding Safety Data Sheet.

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**Storage & Handling**

SYNOLAC® 8049 S 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 9 months from the shipping date

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