

# SYNOLAC® 5237 S 50

GENERAL INDUSTRY

ARKEMA COATING RESINS

## Product Application details

SYNOLAC® 5237 S 50 is a linoleic alkyd resin modified with mixed monomers and supplied in aliphatic hydrocarbon solvent.

SYNOLAC® 5237 S 50 is suitable for fast air dry and force dry industrial paints where the use of aromatic solvents, such as xylene, is undesirable.

Coatings based on SYNOLAC® 5237 S 50 touch dry in 10 minutes to give high gloss, flexible and durable films.

Monomer choice yields exceptional weathering properties.

## Polymer Type

- Solventborne Alkyd

## Sales Specifications

Solid Content at 125°C, % (ISO 3251)	48.5 - 51.5
Viscosity at 25°C, mPa.s (Brookfield SC4-25/13R, 6.6s-1) (ISO 3219)	1500 - 2500
Colour, Gardner scale (ISO 4630)	5 max
Acid value, mg KOH/g (ISO 2114)	8 - 12

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

Volatile	Aliphatic hydrocarbon solvent 13/17
Flash point, °C (ISO 3679)	29
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	0.91
Type of fatty acid	Linoleic rich
Fatty Acid content, %	34

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

Coatings based on SYNOLAC® 5237 S 50 should be modified with driers, and a suitable recommendation is 0.03 - 0.05% cobalt, 0.10 - 0.20 % zirconium and 0.05 - 0.10 % calcium, all calculated as 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® 5237 S 50 has a complete solubility in aromatic hydrocarbons, esters, ketones and glycol ethers but limited in alcohols.

### COMPATIBILITY

SYNOLAC® 5237 S 50 has a complete compatibility with most hard resins, ester type plasticizers and some short and medium oil length alkyd resins.

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**Product Safety**

Please refer to the corresponding Safety Data Sheet.

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**Storage & Handling**

SYNOLAC® 5237 S 50 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 6 months from the shipping date.

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