

SYNOLAC® 4100

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

Product Application details

SYNOLAC® 4100 is a solvent-free long oil alkyd designed for use in low VOC decorative coatings in combination with other long oil alkyds.

SYNOLAC® 4100 very low viscosity and good solvency power enable the formulation of VOC 2010 compliant coatings (Directive 2004/42/CE). SYNOLAC® 4100 is a very good alkyd reactive diluent for all conventional long oil alkyd resins - modified or not - making it suitable for the formulation of topcoats, enamels, etc...

Its low viscosity ensures a good penetration into porous substrates, hence it is adapted to the formulation of primers and woodstains.

Polymer Type

- Solventborne Alkyd

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	99 - 100
Viscosity at 25°C, mPa.s (at 10000 s-1, CAP1000, C3) (ISO 3219)	600 - 1000
Colour, Gardner scale (ISO 4630)	7 max
Acid value, mg KOH/g (ISO 2114)	5 - 10

Other Characteristics¹

Density / Specific Gravity at 25°C, g/ml (ISO 2811)	0.97
Type of fatty acid	Linoleic rich
Fatty Acid content, %	84

Note: Acid value and/or Hydroxyl value 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

DRIERS

SYNOLAC® 4100 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SYNOLAC® 4100 is : 0.06 % cobalt, 0.09 % zirconium and 0.1 % calcium calculated as metals on solid resin. Depending on the formulation (clear, pigmented, 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 an anti-skinning agent is essential to prevent in-can skinning of the finished product.

SOLUBILITY

SYNOLAC® 4100 is soluble in aromatic and aliphatic hydrocarbons, esters and ketones and partially soluble in alcohols.

COMPATIBILITY

SYNOLAC® 4100 is compatible with most medium and long oil alkyds and can be used in conjunction with GELKYD® or SUPER GELKYD® thixotropic alkyds to produce a range of thixotropic decorative coatings, in order to give in-can stability and good application properties.

**Product
Safety**

Please refer to the corresponding Safety Data Sheet.

**Storage &
Handling**

SYNOLAC® 4100 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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See SDS for Health & Safety Considerations.

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For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.

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