

TECHNICAL DATA SHEET

SYNOLAC® 4100

Solventborne Alkyd

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.

SALES SPECIFICATIONS

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

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Density (25°C)	0.97 g/ml	ISO 2811
Fatty acid type	Linoleic rich	
Fatty acid content	84 %	

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

MARKETS

Coatings & Inks

- Architectural Coating
 - Specialty Coatings
 - Trim

SYNOLAC® 4100

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.

REMARKS

The product may present some haziness due to its chemical composition; it does not affect its performance or application properties.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND 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.

In the above mentioned storage conditions the shelf life of the resin will be from the shipping date.

Shelf Life Durability (Months): 6

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