

## TECHNICAL DATA SHEET

# SYNOLAC® 4200

*Long oil alkyd*

### PRODUCT APPLICATION DETAILS

SYNOLAC® 4200 is a solvent-free long oil alkyd designed for use in low VOC decorative coatings in combination with other long oil alkyds.

SYNOLAC® 4200 very low viscosity and good solvency power enable the formulation of VOC 2010 compliant coatings (Directive 2004/42/CE). SYNOLAC® 4200 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 <sup>-1</sup> , CAP1000, C3) (25°C)	600 - 1000 mPa.s	ISO 3219
Color	12 max Gardner	ISO 4630

### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Solvent	solvent free	-
Density	0.97 g/ml	ISO 2811
Fatty acid type	Linoleic rich	-
Fatty acid content	84 %	-

<sup>1</sup>The 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
  - Deck Restoration
  - Stains
  - Trim
  - Wood Coatings & Woodstains
  - Trim Paints
- Industrial Coating
  - General Industry

# SYNOLAC® 4200

## FORMULATION GUIDELINES

### **DRIERS**

SYNOLAC® 4200 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SYNOLAC® 4200 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® 4200 is soluble in aromatic and aliphatic hydrocarbons, esters and ketones and partially soluble in alcohols.

### **COMPATIBILITY**

SYNOLAC® 4200 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 AND HANDLING

SYNOLAC® 4200 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.

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