

## TECHNICAL DATA SHEET

# SYNOLAC® 1421 WD 50

Medium oil alkyd

### PRODUCT APPLICATION DETAILS

SYNOLAC® 1421 WD 50 is a medium oil alkyd resin designed for use in decorative coatings. SYNOLAC® 1421 WD 50 is particularly adapted to the formulation of glossy varnishes and paints with a good weathering resistance. It is also convenient for fast drying anticorrosive primers formulations. It may also be used in combination with long oil alkyd resins to improve their drying.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	49 - 51 %	ISO 3251
Viscosity (Brookfield SC4-21/13R, 3.7 s-1) (25°C)	8000 - 14000 mPa.s	ISO 3219
Color	6 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

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

	CHARACTERISTICS	METHODS
Solvent	Low aromatic white spirit	-
Flash point	42 °C	ISO 3679
Density	0.905 g/ml	ISO 2811
Fatty acid type	linseed	-
Fatty acid content	48 %	-

<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

- Industrial Coating
- General Industry

# SYNOLAC® 1421 WD 50

## FORMULATION GUIDELINES

### **DRIERS**

SYNOLAC® 1421 WD 50 requires metal driers to accelerate the autoxidation process. Surface and through drying can be achieved using a combination drier based on cobalt, zirconium and calcium. Expressed as metal percentage on dry alkyd, a convenient ratio might be: 0.05% cobalt, 0.15% zirconium and 0.2% calcium. 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 an anti-skinning agent such as methyl ethyl ketoxime is essential to prevent in-can skinning of the finished product.

### **SOLUBILITY**

SYNOLAC® 1421 WD 50 is soluble in aromatic and aliphatic hydrocarbons, esters and partially soluble in alcohols.

### **COMPATIBILITY**

SYNOLAC® 1421 WD 50 is compatible with most long oil and medium oil alkyd resins. Its compatibility with short oil alkyds might be limited, dependent on the ratio and should be checked before use.

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNOLAC® 1421 WD 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.

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

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