

# SYNOLAC® 1421 WD 50

GENERAL INDUSTRY / ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

## 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.

## Polymer Type

- Solventborne Alkyd

## Sales Specifications

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

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

Volatile	Low aromatic white spirit
Flash point, °C (ISO 3679)	42
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	0.905
Type of fatty acid	linseed
Fatty Acid content, %	48

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

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.

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**Product Safety**

Please refer to the corresponding Safety Data Sheet.

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**Storage & 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 9 months from the shipping date

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