

## TECHNICAL DATA SHEET

# SYNOLAC® 4097 WD 75

Solventborne Alkyd

### PRODUCT APPLICATION DETAILS

SYNOLAC® 4097 WD 75 is a long oil oxidising alkyd designed to formulate a wide range of 2010 VOC compliant paints and varnishes (directive 2004/42/CE).

SYNOLAC® 4097 WD 75 is supplied in low aromatic white spirit to enable the formulation of coatings that do not require adverse environmental labelling.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	74 - 76 %	ISO 3251
Reduced viscosity (150 g of SYNOLAC 4097 WD 75 + 30 g of Spirdane D40) (20°C)	650 - 770 mPa.s	ISO 3219
Color	7 max Gardner	ISO 4630
Acid value	8 - 12 mg KOH/g	ISO 2114

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

	CHARACTERISTICS	METHODS
Viscosity (Brookfield LVDV-II+, SC4-34, 5 rpm) (25°C)	3500 - 6000 mPa.s	ISO 3219
Solvent	Low aromatic white spirit	
Flash point	40 °C	ISO 3679
Density (20°C)	0.96 g/ml	ISO 2811
Fatty acid type	Linoleic rich	
Fatty acid content	62 %	

<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 & APPLICATIONS

#### Coatings & Inks

- Architectural Coating
  - Primers
  - Specialty Coatings
  - Trim
- Flooring
  - Floor Polish & Floor Coatings

### PERFORMANCE BENEFITS

- Very good drying
- Very good durability
- Good colour retention

# SYNOLAC® 4097 WD 75

## FORMULATION GUIDELINES

### **DRIERS**

SYNOLAC® 4097 WD 75 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SYNOLAC® 4097 WD 75 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.

### **COMPATIBILITY**

SYNOLAC® 4097 WD 75 is compatible with most long and medium oil alkyds, drying oils and varnishes, chlorinated rubber and nitrocellulose. It is partially compatible with stand oils and short oil alkyds. SYNOLAC® 4097 WD 75 can be used in conjunction with GELKYD® or SUPER GELKYD® thixotropic alkyds to produce a range of thixotropic decorative coatings.

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNOLAC® 4097 WD 75 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 (Months): 6

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