# SYNOLAC® 4103 WD 85

### ARCHITECTURAL COATINGS

### ARKEMA COATING RESINS

# **Product**

SYNOLAC® 4103 WD 85 is a long oil alkyd designed for use in 2010 VOC (Directive 2004/42/CE) compliant decorative paints and woodstains.

SYNOLAC® 4103 WD 85 has been specifically designed to be used in combination with SR-**Application details** 350 (1) - a trifunctional methacrylic monomer - for optimum hardness development.

SYNOLAC® 4103 WD 85 is supplied in low aromatic white spirit to enable the formulation of coatings that do not require adverse environmental labelling.

- Good gloss potential
- Good colour retention
- Very good hardness development
- High film build
- Good drying
- Good exterior durability

Calid Contant at 12F0C 0/ (ICO 22F1)

# **Polymer Type**

**Benefits** 

**Performance** 

Solventborne Alkyd

## Sales **Specifications**

Solid Content at 125°C, % (150 3251)	84 - 86
Viscosity at 25°C, mPa.s (Brookfield LVDVII+, SC4-34/13R) (ISO 3219)	4000 - 7000
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)	40
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	0.96
Type of fatty acid	Linoleic rich
Fatty Acid content. %	69

Note: Acid value and/or Hydroxyl value quoted relative to solid resin

### RECOMMENDATIONS FOR USE

Optimum performance of the coating is achieved by using SYNOLAC® 4103 WD 85 in combination with SR-350 (1), at a recommended level of 3 to 6%, % calculated by weight on total resin SYNOLAC® 4103 WD 85.

The stability of the formulated paints or woodstains must be checked prior to use. In some particular systems, the use of SR-350 (1) may have an impact on the stability of the finished product (viscosity increase upon storage).

### **Formulation Guidelines**

SYNOLAC® 4103 WD 85 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SYNOLAC® 4103 WD 85 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.

SYNOLAC® 4103 WD 85 is soluble in aromatic and aliphatic hydrocarbons, esters and ketones and partially soluble in alcohols.



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

### **COMPATIBILITY**

SYNOLAC® 4103 WD 85 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.

Notes: (1) Sartomer

# Product Safety

Please refer to the corresponding Safety Data Sheet.

# Storage & Handling

SYNOLAC® 4103 WD 85 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 6 months from the shipping date

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### **Arkema Coating Resins**

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