

TECHNICAL DATA SHEET

SYNOLAC® 4103 WD 85

Solventborne Alkyd

PRODUCT APPLICATION DETAILS

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-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.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	84 - 86 %	ISO 3251
Viscosity (Brookfield LVDVII+, SC4-34/13R) (25°C)	4000 - 7000 mPa.s	ISO 3219
Color	6 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Low aromatic white spirit	
Flash point	40 °C	ISO 3679
Density (25°C)	0.96 g/ml	ISO 2811
Fatty acid type	Linoleic rich	
Fatty acid content	69 %	

¹The 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
 - Specialty Coatings
 - Trim

PERFORMANCE BENEFITS

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

SYNOLAC® 4103 WD 85

FORMULATION GUIDELINES

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).

DRIERS

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.

SOLUBILITY

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

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 AND 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 from the shipping date.

Shelf Life Durability (Months): 6

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