

TECHNICAL DATA SHEET

SYNOLAC® 4013 WD 85

Solventborne Alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 4013 WD 85 is a long oil alkyd designed for use in decorative paints and wood stains.

SYNOLAC® 4013 WD 85 has been developed for the formulation of 2010 VOC compliant architectural coatings (Directive 2004/42/CED). Alone or combined with a solvent-free alkyd diluent, SYNOLAC® 4100 for instance, allows to formulate a wide range of coatings exhibiting a good hardness development.

SYNOLAC® 4013 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 SC4-34/13R, 12 rpm) (25°C)	3500 - 4500 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 (20°C)	0.98 g/ml	ISO 2811
Fatty acid type	Linoleic rich	-
Fatty acid content	68 %	-

¹The 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
 - Stains
 - Trim

PERFORMANCE BENEFITS

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

SYNOLAC® 4013 WD 85

FORMULATION GUIDELINES

DRIERS

SYNOLAC® 4013 WD 85 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SYNOLAC® 4013 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® 4013 WD 85 is soluble in aromatic and aliphatic hydrocarbons, esters and ketones and partially soluble in alcohols.

COMPATIBILITY

SYNOLAC® 4013 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.

The use of SR-350[®], a trifunctional methacrylic monomer, can boost the hardness development of this resin if needed.

Notes: [®] Sartomer

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 4013 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 months from the shipping date.

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