

TECHNICAL DATA SHEET

SYNOLAC® 4060 WDA 90

Solventborne Alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 4060 WDA 90 is a high solids long oil alkyd resin designed for use in decorative coatings.

SYNOLAC® 4060 WDA 90 has been developed to formulate a wide range of architectural coatings. Its low viscosity combined with its high solid content allows the use of thixotropic resins - such as GELKYD® - silicone-modified alkyds and urethan-modified alkyds to produce high quality, 2010 VOC compliant (Directive 2004/42/CE) decorative coatings formulations.

SYNOLAC® 4060 WDA 90 is supplied in low aromatic high flash white spirit to enable the formulation of coatings that do not require adverse environmental labelling.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	88 - 90 %	ISO 3251
Viscosity (Brookfield LVDV-II+, SC4-34, 20rpm) (25°C)	1500 - 2500 mPa.s	ISO 3219
Color	8 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Low aromatic high flash white spirit	
Flash point	62 °C	ISO 3679
Density (25°C)	0.99 g/ml	ISO 2811
Fatty acid type	Linoleic rich	
Fatty acid content	72 %	

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

- High gloss
- Good drying
- Good colour retention
- High film build

SYNOLAC® 4060 WDA 90

FORMULATION GUIDELINES

DRIERS

SYNOLAC® 4060 WDA 90 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SYNOLAC® 4060 WDA 90 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® 4060 WDA 90 is soluble in aromatic and aliphatic hydrocarbons, esters and ketones and partially soluble in alcohols.

COMPATIBILITY

SYNOLAC® 4060 WDA 90 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.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 4060 WDA 90 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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