

SYNOLAC® 4060 WDA 90

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

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.

Performance Benefits

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

Polymer Type

- Solventborne Alkyd

Sales Specifications

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

Other Characteristics¹

Volatile	Low aromatic high flash white spirit
Flash point, °C (ISO 3679)	62
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	0.99
Type of fatty acid	Linoleic rich
Fatty Acid content, %	72

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

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

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 & 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 6 months from the shipping date

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