

SYNOLAC® 4097 WD 75 (FORMERLY E20697)

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

Product

SYNOLAC® 4097 WD 75 is a long oil oxidising alkyd designed to formulate a wide range of 2010 VOC compliant paints and varnishes (directive 2004/42/CE).

Application details

SYNOLAC® 4097 WD 75 is supplied in low aromatic white spirit to enable the formulation of coatings that do not require adverse environmental labelling.

Performance Benefits

- Very good drying
- Very good durability
- Good colour retention

Polymer Type

- Solventborne Alkyd

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	74 - 76
Reduced Viscosity at 20°C, mPa.s (150 g of SYNOLAC® 4097 WD 75 + 30 g of Spirdane D40) (ISO 3219)	650 - 770
Colour, Gardner scale (ISO 4630)	7 max
Acid value, mg KOH/g (ISO 2114)	8 - 12

Other Characteristics¹

Viscosity at 25°C, mPa.s (Brookfield LVDV-II+, SC4-34, 5 rpm) (ISO 3219)	3500 - 6000
Volatile	Low aromatic white spirit
Flash point, °C (ISO 3679)	40
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.96
Type of fatty acid	Linoleic rich
Fatty Acid content, %	62

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® 4097 WD 75 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SYNOLAC® 4097 WD 75 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.

COMPATIBILITY

SYNOLAC® 4097 WD 75 is compatible with most long and medium oil alkyds, drying oils and varnishes, chlorinated rubber and nitrocellulose. It is partially compatible with stand oils and short oil alkyds. SYNOLAC® 4097 WD 75 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® 4097 WD 75 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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The logo for ARKEMA, with the word in a bold, sans-serif font. The 'A' and 'R' are dark blue, and the 'KEMA' part is green.