

SYNOLAC® 6005 WDA 70

ARCHITECTURAL COATINGS

ARKEMA COATING RESINS

Product Application details

SYNOLAC® 6005 WDA 70 is especially adapted to the formulation of exterior coatings. Primers, undercoats, glossy finishes as well as varnishes and woodstains exhibiting a very good durability can be formulated with SYNOLAC® 6005 WDA 70. SYNOLAC® 6005 WDA 70 specific polymer design ensures a very high and stable flexibility to the coating which is necessary when applied on a wooden substrate.

SYNOLAC® 6005 WDA 70 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 flexibility
- Excellent resistance to cracking
- Excellent durability
- Good gloss retention

Polymer Type

- Solventborne Alkyd

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	69 - 71
Viscosity at 25°C, mPa.s (Brookfield LVDV-II+, SC4-34, 20rpm) (ISO 3219)	1300 - 2000
Colour, Gardner scale (ISO 4630)	7 max
Acid value, mg KOH/g (ISO 2114)	10 max

Other Characteristics¹

Volatile	Low aromatic high flash white spirit
Flash point, °C (ISO 3679)	61 min
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.95
Type of fatty acid	Linoleic rich
Fatty Acid content, %	60

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® 6005 WDA 70 requires metal driers to accelerate the autoxidation process. A suitable combination of driers for use in systems containing SYNOLAC® 6005 WDA 70 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® 6005 WDA 70 is compatible with most medium and long oil alkyds and can be used with thixotropic alkyds. It is partially compatible with short oil alkyds. However, to ensure maximum use is made of the specialised properties of the product, it should be used as the sole binding medium or, for structured coatings, in conjunction with the flexible alkyd, SUPER GELKYD® 6006 WDA 55.

OTHER ADDITIVES

The use of UV absorbers and hindered amine light stabilisers (HALS) is recommended in clear exterior varnishes. Furthermore, non-hazardous biocides to prevent algal and fungal growth should be added to the formulation of coatings based on SYNOLAC® 6005 WDA 70.

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC® 6005 WDA 70 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 9 months from the shipping date

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The logo for ARKEMA, featuring the word "ARKEMA" in a bold, sans-serif font. The letters "A", "R", "K", "E", and "M" are in a dark blue color, while the letter "A" at the end is in a green color.