

TECHNICAL DATA SHEET

SYNOLAC® 6005 WDA 70

Solventborne Alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 6005 WDA 70 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.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	69 - 71 %	ISO 3251
Viscosity (Brookfield LVDV-II+, SC4-34, 20rpm) (25°C)	1300 - 2000 mPa.s	ISO 3219
Color	7 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	61 °C	ISO 3679
Density (20°C)	0.95 g/ml	ISO 2811
Fatty acid type	Linoleic rich	
Fatty acid content	60 %	

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
 - Stains
 - Trim
 - Architectural Wood
- Industrial Coating
 - Protective Coating

PERFORMANCE BENEFITS

- High flexibility
- Excellent resistance to cracking
- Excellent durability
- Good gloss retention

SYNOLAC® 6005 WDA 70

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 AND 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 from the shipping date.

Shelf Life (Months): 9

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