

TECHNICAL DATA SHEET

SYNOLAC® 51W

Medium oil alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 51W is a medium oil oxidizing alkyd that produces a wide range of high quality air drying finishes and which can also be used for force dry and stoving finishes. It provides an excellent combination of fast drying and toughness, together with excellent colour retention and durability.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C, %)	54 - 56	ISO 3251
Viscosity (25°C, Gardner)	Z3Z4 - Z4Z5	Gardner-Holdt
Color (Gardner)	Max. 6	ASTM D-1544
Acid value (mg KOH/g)	Max. 12	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	White Spirit	-
Density (25°C, g/mL)	0.93	-
Fatty acid type	Tall Oil Fatty Acid	-
Fatty acid content (%)	51	-

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
 - Primers
 - Trim
- Industrial Coating
 - Automotive - Refinish
 - General Industry

PERFORMANCE BENEFITS

- Excellent fast drying
- Excellent toughness
- Good durability
- Excellent color retention
- Good gloss retention

SYNOLAC® 51W

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOLAC® 51W is recommended for all types of transport and car refinishing, but can also be used for undercoats and semi-gloss enamels.

In air drying applications the recommended driers are 0.05% Cobalt, 0.15% Zirconium, and up to 0.2% Calcium, all expressed as metals on solid resin.

For force dry applications, a butylated melamine resin of good aliphatic hydrocarbon solubility should be used to form 10% of the total resin, and driers as above or less should also be used.

In stoving finishes, the melamine resin content can increase to 20% and driers decrease to 0.01% Cobalt and 0.05% Zirconium. Anti-skinning agent such as methyl ethyl ketoxime should be used as 0.10% of total paint.

SOLUBILITY

Aromatic hydrocarbon — Complete

Aliphatic Hydrocarbon — Complete

Ester — Complete

Ketone — Complete

Ether Alcohol — Complete

Alcohol — Partial

COMPATIBILITY

Long Oil Alkyd — Very Good

Medium Oil Alkyd — Very Good

Drying Oil — Very Good

Oleo-resinous Varnishes — Very Good

Chlorinated Rubber — Very Good

Amino Resin — Good

Short Oil Alkyd — Fair

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 51W should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 35°C. Exposure to direct sunlight should be avoided.

In the above mentioned storage conditions the shelf life of the resin will be 12 months.

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