

SYNOLAC® 51W

Medium Oil Alkyd

ARKEMA COATING RESINS

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.

Performance Benefits

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

Polymer Type

- Solventborne alkyd

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	54 - 56
Viscosity at 25°C, Gardner Holdt	Z3Z4 – Z4Z5
Colour, Gardner scale (ASTM D1544)	6 max
Acid value, mg KOH/g (ISO 2114)	12 max

Other Characteristics¹

Volatile	White Spirit
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	0.93
Type of oil / fatty acid	Tall Oil Fatty Acid
oil / fatty acid content, %	51

Note: Acid 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

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.

Formulation Guidelines

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 & 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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