

TECHNICAL DATA SHEET

SYNOLAC® 5014 X 60

Short Oil Alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 5014 X 60 is a short oil length chain stopped alkyd based on linoleic rich fatty acids. SYNOLAC® 5014 X 60 is recommended for the formulation of air drying industrial primers and topcoats suitable for the protection of structural steel and general industrial applications.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	59 - 61 %	ISO 3251
Reduced viscosity (solution of 100g Resin+20ml Xylene, at 10000 s-1) (25°C)	370 - 430 mPa.s	ISO 3219
Color	8 max Gardner	ISO 4630
Acid value	5 - 15 mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Viscosity (25°C)	3100 mPa.s	ISO 3219
Solvent	Xylene	-
Flash point	23 °C	ISO 3679
Density	1.03 g/ml	ISO 2811
Fatty acid type	Linoleic rich	-
Fatty acid content	33 %	-

¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS

Coatings & Inks

- Industrial Coating
 - General Industry
 - Protective And Marine Coating

PERFORMANCE BENEFITS

- Fast drying (sand free ½-1 hour, tack free 1-2 hours, hard dry 2-3 hours)
- Good build
- High gloss
- Good hardness
- Good adhesion
- Recoatability

SYNOLAC® 5014 X 60

FORMULATION GUIDELINES

DRIERS

A suitable combination of driers for use with SYNOLAC® 5014 X 60 is 0.06% cobalt, 0.09% zirconium and 0.25% calcium calculated as metals on solid resin. Depending on the formulation (clear, pigmented, thixotropic, 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 antiskinning agent is essential to prevent in-can skinning of the finished product.

SOLUBILITY

SYNOLAC® 5014 X 60 is soluble in aromatic hydrocarbons and esters but has a limited solubility in aliphatic hydrocarbons and alcohols.

COMPATIBILITY

SYNOLAC® 5014 X 60 is compatible with most short oil length alkyds, some medium oil length alkyds and amino resins but has limited compatibility with long oil length alkyds, epoxy esters and vinylated alkyds.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 5014 X 60 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.

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