

TECHNICAL DATA SHEET

SYNOLAC® 7312 X 60

Short Oil Alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 7312 X 60 is a short oil alkyd resin based on special fatty acids. SYNOLAC® 7312 X 60 is a polymer with a high grade of flexibility and compatibility studied in order to manufacture sealers and finishes that may be hardened mainly with isocyanurates. SYNOLAC® 7312 X 60 can be used to manufacture fast drying wood coatings with a solids content higher than 40%.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	58 - 62 %	ISO 3251
Viscosity (Brookfield SC4-25/13R, 6.6s-1) (25°C)	4500 - 8000 mPa.s	ISO 3219
Color	6 max Gardner	ISO 4630
Acid value	15 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Xylene	-
Flash point	25 °C	ISO 3679
Density	1.02 g/ml	ISO 2811
Fatty acid type	Special fatty acids	-
Fatty acid content	34 %	-
Hydroxyl content	5 %	-

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
- Wood Furniture

SYNOLAC® 7312 X 60

FORMULATION GUIDELINES

SOLUBILITY

SYNOLAC® 7312 X 60 is soluble in aromatic hydrocarbons, esters, ketones and glycol ethers and has a limited solubility in aliphatic hydrocarbons and alcohols.

The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants. The relationship is:

Hydroxyl Equivalent Weight = $(17 \times 100) / \%OH$

Isocyanate Equivalent Weight = $(42 \times 100) / \%NCO$

COMPATIBILITY

SYNOLAC® 7312 X 60 is compatible with most short oil alkyds resins, nitrocellulose, phthalate plasticizers, maleic resins, urea and melamine resins and polyisocyanates.

Notice that the presence of this resin increases the compatibility between nitrocellulose and isocyanurates.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 7312 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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