

SYNOLAC® 5512 X 60

INDUSTRIAL WOOD

ARKEMA COATING RESINS

Product Application details

SYNOLAC® 5512 X 60 is a short alkyd resin based on vegetable fatty acids. The flexibility is the main feature of SYNOLAC® 5512 X 60 and it is mainly used for highly pigmented 2 pack PU sealers for wood and as a plasticizer for other SYNOLAC® types, without losing its drying and sanding properties. It also provides a very fast hardening speed in two component polyurethane varnishes.

Polymer Type

- Solventborne Alkyd

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	59 - 61
Viscosity at 25°C, mPa.s (Brookfield SC4-25/13R, 13.2s-1) (ISO 3219)	1500 - 3000
Colour, Gardner scale (ISO 4630)	5 max
Acid value, mg KOH/g (ISO 2114)	18 - 23

Other Characteristics¹

Volatile	Xylene
Flash point, °C (ISO 3679)	25
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.05
Type of fatty acid	Vegetable fatty acids
Fatty Acid content, %	43
Hydroxyl Content, %	4.7

Note: Acid value and/or Hydroxyl 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

SOLUBILITY

SYNOLAC® 5512 X 60 is soluble esters, ketones and glycol ethers, has a limited solubility in aromatic hydrocarbons and alcohols and is insoluble in aliphatic hydrocarbons.

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

$$\text{Hydroxyl equivalent weight} = \frac{17 \times 100}{\% \text{ OH}}$$

$$\text{Isocyanate equivalent weight} = \frac{42 \times 100}{\% \text{ NCO}}$$

COMPATIBILITY

SYNOLAC® 5512 X 60 is compatible with most short oil alkyd resins and nitrocellulose.

Formulation Guidelines

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC® 5512 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 6 months from the shipping date

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