

SYNOLAC[®] 15S-60

INDUSTRIAL WOOD

ARKEMA COATING RESINS

Product Application details SYNOLAC[®] 15S-60 is a medium oil alkyd resin suitable for the formulation of 2K polyurethane wood coatings.
The sealers formulated with SYNOLAC[®] 15S-60 have good sandability, recoatability and transparency.
The topcoats formulated with SYNOLAC[®] 15S-60 are easy to matt and have very good scratch resistance.
SYNOLAC[®] 15S-60 has good yellowing resistance, depending on the polyisocyanate used to crosslink it.

Polymer Type

- Solvent borne Alkyd

Sales Specifications	Solid Content at 125°C, % (ISO 3251)	58 - 62
	Viscosity in second on Ford Cup B-4 30°C (40% in Xylene)	40 - 50
	Colour, Gardner scale (ISO 4630)	3 max
	Acid value, mg KOH/g (ISO 2114)	15 max

Other Characteristics¹	Volatile	Xylene/MIBK
	Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.01
	Type of fatty acid	Special fatty acids
	Fatty Acid content, %	44
	Hydroxyl Value, mg KOH/g (ISO 4629)	150

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

RECOMMENDATIONS FOR USE

SYNOLAC[®] 15S-60 is used in 2 pack systems either in combination with aromatic or with aliphatic polyisocyanates.

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

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

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

Formulation Guidelines

SOLUBILITY

SYNOLAC[®] 15S-60 is soluble in aromatic hydrocarbons, esters, ketones and glycol ethers and has a limited solubility in aliphatic hydrocarbons and alcohols.

COMPATIBILITY

SYNOLAC[®] 15S-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 isocyanates.

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOLAC[®] 15S-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.

Under the above mentioned storage conditions the shelf life of the resin will be 12 months from the date of manufacturing.

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