

SYNOLAC® 5014 X 60

PROTECTIVE & MARINE COATINGS

ARKEMA COATING RESINS

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.

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

Polymer Type

- Solventborne Alkyd

Sales Specifications

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

Other Characteristics¹

Viscosity at 25°C, mPa.s (ISO 3219)	3100
Volatile	Xylene
Flash point, °C (ISO 3679)	23
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.03
Type of fatty acid	Linoleic rich
Fatty Acid content, %	33

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

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 & 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.

Under the above mentioned storage conditions the shelf life of the resin will be 9 months from the shipping date.

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See SDS for Health & Safety Considerations.

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For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.

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