

# SYNOLAC® 3133 X 74

GENERAL INDUSTRY

ARKEMA COATING RESINS

## Product Application details

SYNOLAC® 3133 X 74 is a high solids content alkyd/acrylic hybrid resin. SYNOLAC® 3133 X 74 is recommended for use in machinery, agricultural implement and general industrial finishes. It is equally suitable for interior and exterior application. Although coatings based on SYNOLAC® 3133 X 74 show good air-dry performance they can also be force-dried. The hybrid structure of SYNOLAC® 3133 X 74 results in improved hardening rate compared with conventional alkyd based coatings especially during the early stages after application when this is such an important feature.

## Performance Benefits

- Fast drying
- Good colour retention
- Good chemical resistance

## Polymer Type

- Alkyd/acrylic hybrid resin

## Sales Specifications

Solid Content at 125°C, % (ISO 3251)	73 - 75
Viscosity at 25°C, mPa.s (ISO 3219)	4000 - 10000
Colour, Gardner scale (ISO 4630)	4 max
Acid value, mg KOH/g (ISO 2114)	10 max

## Other Characteristics<sup>1</sup>

Volatile	Xylene
Flash point, °C (ISO 3679)	28
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.05

Note: Acid value and/or Hydroxyl value quoted relative to solid resin

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

## Formulation Guidelines

### RECOMMENDATIONS FOR USE

For air dry finishes a suitable combination of driers for use with SYNOLAC® 3133 X 74 is 0.05% cobalt, 0.05% calcium and 0.20% zirconium calculated as metal on solid resin. For best through dry and film hardness development especially in thick films an alternative combination of driers is recommended: AOC 1020 X (1) (0.3% metal on solid resin) and cobalt (0.05% 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.

Suitable force dry schedules are 20 min at 75°C or 10 min at 85°C. Bearing in mind the high film thicknesses obtained from this type of resin care should be taken to ensure adequate flash-off time to avoid surface defects.

### COMPATIBILITY

SYNOLAC® 3133 X 74 is compatible with most short and medium oil length alkyds. It is incompatible with long oil alkyds and drying oils.

Notes: (1) OMG Borchers GmbH

SYNOLAC®

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**Product Safety**

Please refer to the corresponding Safety Data Sheet.

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**Storage & Handling**

SYNOLAC® 3133 X 74 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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