

TECHNICAL DATA SHEET

SYNOLAC® 3133 X 74

Modified alkyd

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.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	73 - 75 %	ISO 3251
Viscosity (25°C)	4000 - 10000 mPa.s	ISO 3219
Color	4 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Xylene	-
Flash point	28 °C	ISO 3679
Density	1.05 g/ml	ISO 2811
Modification	Acrylic	-

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
 - General Industry
 - Protective And Marine Coating

PERFORMANCE BENEFITS

- Fast drying
- Good colour retention
- Good chemical resistance

SYNOLAC® 3133 X 74

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

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND 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 from the shipping date.

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