SYNOLAC®

TECHNICAL DATA SHEET

SYNOLAC® 926 X 60 HV

Short Oil Alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 926 X 60 HV is a short oil alkyd resin based on soya rich oil, designed to formulation nitrocellulose lacquers and varnishes, very fast drying sealers, fillers and primers with easy sanding, very fast air drying varnishes and paints as two pack polyurethane lacquers and general purpose stoving enamels.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	59 - 61 %	ISO 3251
Viscosity (Brookfield SC4-25/13R, 6.6s-1) (25°C)	3100 - 6000 mPa.s	ISO 3219
Color	6 max Gardner	ISO 4630
Acid value	8 - 15 mg KOH/g	ISO 2114

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Solvent	Xylene	-
Flash point	25 °C	ISO 3679
Density	1 g/ml	ISO 2811
Fatty acid type	Soya	-
Fatty acid content	27 %	-
Hydroxyl content	3 %	-

[1] The 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
  - Metal Exterior - Powder
  - Protective And Marine Coating
  - Industrial Wood Finishes

SYNOLAC® 926 X 60 HV

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOLAC® 926 X 60 HV is recommended for nitrocellulose lacquers and varnishes formulations with an alkyd/ nitrocellulose ratio till 3:1. An important characteristic is a very quick solvent release from the applied film, allowing to handle the varnished goods in very short times. Quantities of 1-3% of zinc stearate are recommended to obtain a good sanding. On matting varnishes, it allows a perfect distribution on the varnish surface, giving an excellent appearance.
SYNOLAC® 926 X 60 HV allows to obtain putties with very fast drying and high thickness film without cracking and with sanding times of 2-3 hours, high build and flexibility.
SYNOLAC® 926 X 60 HV allows formulation of nitrocombined varnishes which may be hardened with polysocyanates. Very good stackability and sanding can be obtained.
SYNOLAC® 926 X 60 HV combined with melamine-formaldehyde resins (75/25 or 80/20 ratios) allows the formulation of stoving enamels curables from 80°C.
Combined with urea-formaldehyde resins (ratio 60/40 or 70/30) stoving schedules can be obtained from 110°C.

Driers are usually not used in primers with SYNOLAC® 926 X 60 HV because its low effects over product stability. Nevertheless, additon of 0.03% of cobalt (metal on solid resin) improves drying and initial hardness.
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.

SOLUBILITY

SYNOLAC® 926 X 60 HV is soluble in aromatic hydrocarbons, esters, ketones, glycol ethers, alcohols and trichloroethylene, partially soluble in terpenic solvents and insoluble in aliphatic hydrocarbons.

COMPATIBILITY

SYNOLAC® 926 X 60 HV is compatible with nitrocellulose, chlorinated rubber resins, maleic resins and poly-isocyanates, partially compatible with phenolic modified resins and drying oils and incompatible with standoils.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 926 X 60 HV 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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