SYNOLAC®

TECHNICAL DATA SHEET

SYNOLAC® 5250 X 50

Modified alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 5250 X 50 is a styrenated short oil alkyd resin based on dehydrated castor oil, showing faster air drying than most of the resins of this type.
SYNOLAC® 5250 X 50 has been essentially designed for the preparation of polyurethane primers. A primer based on SYNOLAC® 5250 X 50, applied by spray or dipping, can be easily recoated after 20-30 minutes after by a polyurethane lacquer without wrinkling.
In addition, it allows to make paints for projectiles (negative result to the Storch-Morawski reaction) and hammered paints with good mar resistance and good hardness development.
SYNOLAC® 5250 X 50 can be used for the preparation of industrial lacquers with quick drying and good resistance to fuel.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content	48 - 52 %	ISO 3251
Viscosity (Noury) (20°C)	50 - 70 dPa.s	-
Color	6 max Gardner	ISO 4630
Acid value	20 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Reduced viscosity (43% in xylene)	10-20 dPa.s	-
Solvent	Xylene	-
Density	0.97 g/ml	ISO 2811
Hydroxyl equivalent weight	90	-
Modification	Styrene	-
Storch-Morawski reaction	Negative	-

[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

SYNOLAC® 5250 X 50

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

In combination with small quantities of nitrocellulose (preferably without alcohol) or amino resin in the following proportions:
SYNOLAC® 5250 / nitrocellulose = 6 - 10 / 1 on solid resin
SYNOLAC® 5250 / urea-formaldehyde or melamine-formaldehyde = 90/10 - 95/5 on solid resin, it gives excellent nitro-synthetic lacquers and fast stoving enamels.
SYNOLAC® 5250 X 50 allows the preparation of air drying or stoving primers and undercoats that can be applied in thick layers "wet on wet" on vertical surfaces. It allows the application of nitro-synthetic or stoving finishes without surface defects.

SOLUBILITY

SYNOLAC® 5250 X 50 is totally soluble in aromatic hydrocarbons and terpenics, ketones, esters, chlorinated solvents and partial soluble in glycol ethers. It shows a limited solubility in alcohols and aliphatic hydrocarbons.

COMPATIBILITY

SYNOLAC® 5250 X 50 is compatible with amine resins, nitrocellulose, some short and medium oil alkyd resins, abieto-phenolic and abieto-maleic resins showing a melting point lower than 120°C and chlorinated plasticizers.
It is partially compatible with low viscosity isomerised rubber and chlorinated rubber (type 5, 10 and 20) in the ratio SYNOLAC® 5250 / CCl = 85/15 to 100/0 on solid resin.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 5250 X 50 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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