

SYNOLAC® 5250 X 50

GENERAL INDUSTRY

ARKEMA COATING RESINS

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.

Polymer Type

- Solventborne Alkyd

Sales Specifications

Solid Content %	48 - 52
Viscosity at 20°C, dPa.s (Noury)	50 - 70
Colour, Gardner scale	6 max
Acid value, mg KOH/g	20 max

Other Characteristics¹

Reduced Viscosity dPa.s (43% in Xylene)	10 - 20
Volatile	Xylene
Density / Specific Gravity, g/ml	0.97
Hydroxyl Value, mg KOH/g	90
Storch-Morawski reaction	Negative

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

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.

Formulation Guidelines

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.

SYNOLAC®

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & 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 6 months from the shipping date

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