

TECHNICAL DATA SHEET

SYNOLAC® 5140 X 41

Modified alkyd

PRODUCT APPLICATION DETAILS

SYNOLAC® 5140 X 41 is a silicone modified isophthalic acid alkyd based on linseed oil recommended for fast drying coatings where a combination of heat resistance, corrosion resistance or insulating properties is required, e.g. furnaces, chimneys, electrical equipment, etc.

SYNOLAC® 5140 X 41 is recommended for high quality fast drying coatings.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	40.5 - 43.5 %	ISO 3251
Viscosity (Brookfield SC4-21/13R, 96s-1) (25°C)	250 - 400 mPa.s	ISO 3219
Color	7 max Gardner	ISO 4630
Acid value	20 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Xylene	-
Flash point	27 °C	ISO 3679
Density	0.95 g/ml	ISO 2811
Fatty acid type	Linseed	-
Fatty acid content	30 %	-
Silicone content	25 %	-

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

MARKETS & APPLICATIONS

Coatings & Inks

- Industrial Coating
 - General Industry
 - Protective And Marine Coating

PERFORMANCE BENEFITS

- Good heat resistance up to 400°C
- Good solvent, chemical and corrosion resistance
- Insulating properties meets BS2757 Class F requirements
- Fast air drying or stoving for spray or dip application

SYNOLAC® 5140 X 41

FORMULATION GUIDELINES

DRIERS

Coatings will cure without driers and are handleable in 20 - 30 minutes. The addition of driers will give faster cure but should be kept to a minimum as they also act as a degradation agent.

Suggested addition of cobalt octoate, 0.04% as metal on solid resin gives:

Touch dry 15 - 20 minutes

Hard dry 30 - 45 minutes

Maximum resistance to solvents will be achieved after 24 - 48 hours.

Optimum Insulation properties develop without driers after:

2 - 4 hours at 200°C

6 - 12 hours at 175°C

12 - 16 hours at 150°C

The addition of small amounts of driers or amino resins will reduce the time and temperature to give full cure but will shorten the life of the film.

Depending on the formulation (clear, pigmented, thixotropic, etc...) and on the application, the loading of the drier may be increased or reduced in order to achieve the appropriate drying/hardness profile.

SOLUBILITY

SYNOLAC® 5140 X 41 is completely soluble in aromatic hydrocarbons, esters and ketones and has a limited solubility in aliphatic hydrocarbons.

REMARKS

The product may present some haziness after storage.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOLAC® 5140 X 41 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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