# **SYNOLAC® 5140 X 41**

**GENERAL INDUSTRY** 

**ARKEMA COATING RESINS** 

# **Product**

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 **Application details** 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.

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

# **Polymer Type**

Solventborne Alkyd

## Sales **Specifications**

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

## Other Characteristics<sup>1</sup>

Volatile	Xylene
Flash point, °C (ISO 3679)	27
Density / Specific Gravity at 20°C, g/ml	0.95
Type of fatty acid	Linseed
Fatty Acid content, %	30
Silicone content, %	25

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

### **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

## **Formulation Guidelines**

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 & 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 6 months from the shipping date

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