

# COATING RESINS TECHNICAL DATA

## SYNOLAC 9003X(52%)

### SALES SPECIFICATION

Non-volatile content, % @ 150°C	50 - 54
Viscosity in CPS at 25°C ( Straight) (By Brookfield Viscometer Spindle No.4 RPM20 )	1000 - 1500
Colour, Gardner scale (ISO 4630)	≤ 8 Gardner
Acid value, mg KOH/g (ISO 3682)	≤25

### OTHER PROPERTIES

Volatile	Xylene
Non-volatile content, % @ 150°C	52
Flash point, °C (ISO 3679)	22
Density at 20°C (ISO 2811)	0.96
Oil or Fatty Acid Type	DCO
Oil Length in %	45%

Note –Acid Value quoted relative to solid resin

### PRODUCT INFORMATION

**SYNOLAC 9003X(52%)** SYNOLAC9003X(52%) is a short oil oxidising acrylic modified alkyd resin ; which is made in combination with Glycerol. SYNOLAC 9003X(52%) is specially recommended to use in industrial air drying and stoving systems. It is also used to modify other resin's performance. This resin is available in 52% solids. Particular advantages gained by using this resin include:

- Excellent drying.
- Excellent solvent release.
- Good petrol and oil resistance.
- Good gloss.

#### **Solubility:**

SYNOLAC9003X(52%) is completely soluble in aromatic hydrocarbons ketones and esters. It does have solubility in alcohols like butanol, isopropanols.

**COMPATIBILITY :** SYNOLAC 9003X(52%) is compatible with all short and some medium oil alkyd resins. It is also compatible with all amino resins. It is not compatible with chlorinated rubber , NC resins, and vinyl resins.

#### **Recommendations:**

In air drying systems 0.02% - 0.05% of CO added calculated as metal on solid resins content are recommended in air drying systems. Some amount of plasticisers ( about 1% - 3%) are recommended in this system to get better flexibility and adhesion to the film.

In stoving system it can be used along with Melamine Formaldehde (1% – 5%) and same will be baked at low temperature preferably at 60°C or 80°C.

#### **Uses:**

SYNOLAC 9003X(52%) exhibits very rapid air drying characteristics achieving touch dry times of the order of 10 minutes. SYNOLAC 9003X is recommended for use in paint systems as the sole binder. Minor additions of plasticizers improve the flexibility and adhesion of paints based on SYNOLAC 9003X, whilst retaining the advantages of rapid dry.

**SYNOLAC 9003X(52%)** should only be used in applications consistent With the above recommendations. Proposals to use resin in other Way should be discussed with the Cray Valley before any action taken

