

COATING RESINS

TECHNICAL DATA

SYNOLAC 4003 (60%)

SALES SPECIFICATION

Non-volatile content, % @ 150°C	58 - 62
Viscosity in Secs at 30°C (50%in MTO) (By B-4 Ford Cup)	250 - 300
Colour, Gardner scale (ISO 4630)	≤ 11 Gardner
Acid value, mg KOH/g (ISO 3682)	≤20

OTHER PROPERTIES

Volatile	MTO
Non-volatile content, % @ 150°C	60
Flash point, °C (ISO 3679)	28
Density at 20°C (ISO 2811)	0.96
Oil or Fatty Acid Type	DCO
Oil Length in %	55%

Note –Acid Value quoted relative to solid resin

PRODUCT INFORMATION

SYNOLAC 4003(60%) SYNOLAC4003(60%) is a Medium oil oxidising Alkyd Resin which is made by DCO and modified with Glycerol. SYNOLAC4003(60%) is recommended for use where economy is a major Factor. This resin can be used to make low cost paints and primers. It is also used for metal decoration and roller coating. It is available in 60% solids. Particular advantages gained by using this resin include:

- Economy in use.
- Excellent Gloss.
- Good Drying.

Solubility:

SYNOLAC4003(60%) is soluble in aliphatic and aromatic hydrocarbons, ketones and esters.

COMPATIBILITY : SYNOLAC4003(60%) is compatible with most long and medium oil alkyd, drying oils and Varnishes, Chlorinated rubber. It is also compatible with some of the short oil alkyds. It is also compatible with the Urethane Alkyds in all proportions.

DRIERS :

For Air Drying applications recommended drier combination is as follows ; 0.05% Cobalt 0.1% Calcium and 0.5% Lead calculated as on metal basis. In lead free systems use 0.2% - 0.6% of Zirconium can be used as an alternative to Lead.

Typical Drying time using above combination are as follows:

S. D.	-	2 – 3 hrs.
T. D.	-	4 – 5 hrs.
H. D.	-	O/N

USES:

This resin is used for low cost air drying and stoving enamels and undercoats. It is also used for metal decoration and roller coating.

SYNOLAC 4003(60%) should only be used in applications consistent with the above recommendations. Proposals to use the resin in other ways should be discussed with Cray Valley before any action is taken.