CRAY VALLEY

COATING RESINS

TECHNICAL DATA — SYNOLAC 4004(70%)

SALES SPECIFICATION

Non-volatile content, % @ 150°C	68 - 72
Viscosity in CPS at 25°C (50%in Mix Xylene)	15-20
Colour, Gardner scale (ISO 4630)	≤ 8 Gardner
Acid value, mg KOH/g (ISO 3682)	≤25

OTHER PROPERTIES

Volatile	Xylene
Non-volatile content, % @ 150°C	70
Flash point, °C (ISO 3679)	28
Density at 20°c (ISO 2811)	0.98
Oil or Fatty Acid Type	DCO
Oil Length	42%

Note –Acid Value quoted relative to solid resin

PRODUCT INFORMATION

SYNOLAC 4004(70%) SYNOLAC4004 (70%) is a Short oil Non oxidising Alkyd Resin which is made by DCO and modified with Glycerol. SYNOLAC4004(70%) is recommended to make stoving enamels.This resin can be use to make stoving enamels. It is also used for making Nitro Cellulose Lacquers.It is available in70% solids. Particular advantages gained by using this resin include:

- Excellent colour colour retention.
- Excellent Gloss and gloss retention.
- Excellent water resistance.

Solubility:
SYNOLAC4004(70%) is soluble in aromatic hydrocarbons, ketones and esters and in butanol. This resin is having low solubility in aliphatic hydrocarbons.

COMPATIBILITY : SYNOLAC4004(70%) is compatible with most short oil alkyds, amino resins and Nitro Cellulose resins.

RECOMMENDATIONS:
SYNOLAC 4004(70%) is compatible with a wide range of Amino resins and is typically used up in combination with Melamine formaldehyde. For an optimum performance with respect to level of cure, flexibility, hardness and impact resistance, a combination of SYNOLAC 4004(70%) with Amino Resin at ratio of 60:40, 70:30 on solid resin content is suggested Then stoved at certain recommended temperature for curing. To promote Cure the use of 1%- 6% of acid catalyst is (20% to 25% solution) recommende mainly p- toluene sulphonic acid is used as a acid catalyst.

USES:

This resin is used in stoving enamels, undercoats ; also used in NC paints, Lacquers and undercoats. This resin can be used in combination with **SYNOLAC 4005(70%)** in metal decoration application.

SYNOLAC 4004(70%) 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.

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