CRAY VALLEY

COATING RESINS

TECHNICAL DATA — SYNOLAC 1529

SALES SPECIFICATION

Non-volatile content, % @ 150°C	78 - 82
Viscosity, 25°C,CPS	9000-13000
Maximum colour, Gardner scale (ISO 4630)	10 Max
Acid value, mg KOH/g (ISO 3682)	15 Max

OTHER PROPERTIES

Volatile	Butyl Acetate/C9
Hydroxyl value, mg KOH/g	165
Hydroxyl Content, %	5
Density	1.06

Note: Hydroxyl value quoted relative to solid resin.

PRODUCT INFORMATION

SYNOLAC 1529 is a low viscosity linear saturated hydroxyl modified polyester resin.
SYNOLAC 1529 is useful for high solids polyurethanes and stoving enamels. This resin possess excellent wetting properties The coating which are made using this polyester by air drying, force drying or by stoving possess

- Excellent gloss.
- Excellent non-yellowing and weather resistance.
- Excellent combination of flexibility and hardness.
- Excellent surface hardness.
- Good adhesion to surface.

SYNOLAC 1529 is suitable for use with 2-component polyester isocyanate systems, high quality stoving system and force dry system.

RECOMMENDATIONS FOR USE:

It is suggested that initial evaluations be carried out using SYNOLAC 1529 at substituted levels of between 5% and 15% of the main binder.

(a) 2 – component systems
When used in combination with other hydroxyl containing resins in 2 – component system, SYNOLAC 1529 will react with aliphatic isocyanates such as Tolonate HDB and Desmodur N.

The reaction ratios are calculated from the respective equivalent weight or from hydroxy or isocyanate content of the reactants.
The relation ship is:

Equivalent weights (EqW): Hydroxyl EqW $= \frac{17 \times 100}{\%OH}$ Isocyanate EqW $= \frac{42 \times 100}{\%NCO}$

Recommended ratios using typical isocyanates would be:

	On Solid resin	On solution basis
SYNOLAC 1529	340	425
Desmodur N - 75	191	255
AR - 75	242	323

SYNOLAC1529 can be successfully at low levels 2 – 3 % in water based systems if it is dispersed into the resin system before neutralisation and addition of water.

(b) Stoving systems
when used in combination with other resins in stoving systems, SYNOLAC 1529 will react most MF resins , resin solid ratios are between 70:30 and 85:15 binder to amino are suggested.

COMPATIBILITY:
Compatible with many other resins including polyesters, acrylics, isocyanates, melamine, urea, and alkyd resins.

SOLVENTS:
Soluble in aromatic hydrocarbons , esters, and ketones.
Insoluble in aliphatic hydrocarbons.

STORAGE:
SYNOLAC 1529 is supplied at 80% solid and it will tend to get cloudy or solidify if stored at low temperature for an extended Period of time. This can be returned back to a clear liquid if warmed gently to room temperature.

SYNOLAC 1529 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.

Notes: N – 75 From Bayer
AR – 75 From CVRIL

December 1999 UPC98729

CRAY VALLEY (I) PVT. LTD
D-43(1) MIDC Industrial AREA Navi Mumbai - 400706
TELEPHONE: 55907102-08