

COATING RESINS

TECHNICAL DATA

SYNOCRYL 839S

SALES SPECIFICATION

% Non-Volatile content	58 +/- 2 %
Viscosity CPS, (Straight at 25°C)	3000 - 6000
Maximum colour	1/2 PRS / 2 Gardner
Acid value, mg KOH/g (ISO 3682)	10-15

OTHER PROPERTIES

Volatile	C-9 / Butanol (3:1)
Non-volatile content, % @ 150°C	60
Density at 20°C (ISO 2811)	0.98 1.05

PRODUCT INFORMATION :

SYNOCRYL839S is a Acrylamide base Thermosetting resin for use in metal decorating exterior applications. An optimum balance of hardness, flexibility and chemical resistance can be achieved by the use of this resin.

SYNOCRYL 839S is recommended for the development of acrylic based vehicle refinish lacquers having following characteristics.

Characteristics of **SYNOCRYL839S** based coatings include following properties:

- Excellent Flow and coating properties
- Good adhesion and Gloss retention
- Good chemical resistance
- Good balance of flexibility and hardness

RECOMMENDATIONS FOR USE:

REACTION RATIOS: SYNOCRYL839S can be used in unmodified enamel formulations, as it is self crosslinking on stoving.

To achieve optimum properties of hardness and flexibility, a combination of SYNOCRYL839S with epoxy resin(epoxy eq. weight> 500) 5-30% is recommended. Higher level than this is not recommended. For external applications recommended epoxy level is 5 – 7.5 %.

The recommended stoving schedule is from 150-200C for a predetermined rate of 15-20 minutes.

SOLVENTS: The solvents chosen for paints and lacquers based on SYNOCRYL839S are Xylene ,Toluene and high boiling Glycol Ethers, Esters and ketones. It is having limited solubility in alcohols.

COMPATIBILITY: SYNOCRYL839S is not compatible with all grades of Thermosetting and Thermoplastic resins and alkyd resins before using it is recommended to check the compatibility.

USES:

- Metal Decorating Lacquers
- Coil Coatings
- Roller Coatings
- Lacquers for Caps and Closures

SYNOCRYL 839S 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.