

## COATING RESINS

### TECHNICAL DATA

### SYNOCRYL 827

#### SALES SPECIFICATION

% Non-Volatile content	65 +/- 2 %
Viscosity in CPS (Straight at 25°C)	1000 - 1500
Maximum colour	1/2 PRS / 2 Gardner
Acid value, mg KOH/g	10-12

#### OTHER PROPERTIES

Volatile	Xylene / Butanol / Cellosolve Acetate(1:0.8:0.2)
Non-volatile content, % @ 150°C	65
Density at 20°C	0.98 1.05

Note – Acid Value quoted relative to solid resin

#### PRODUCT INFORMATION :

**SYNOCRYL827** is at hydroxy functional Thermosetting acrylic resin developed for use in low bake stoving system for auto body paints and lacquers.

**SYNOCRYL827** is recommended where high solids are the basic requirement; this acrylic resin based vehicle refinish lacquers or paints having the following characteristics.

Characteristics of SYNOCRYL827 based coatings includes :

- Excellent gloss and gloss retention
- Excellent durability.
- Excellent Flow Properties.

#### RECOMMENDATIONS FOR USE:

**REACTION RATIOS:** SYNOCRYL827 should be mixed with Amino resins. Recommended ratios are 70:30 or 80:20 on solid Basis cooked at 120°C. Use of 5-10% of Acid catalyst soln. (20% of PTSA in Xylene) is acceptable at lower cooking temperature around 80°C.

Use of Epoxy Resins ( Eq.Wt. 500) 1-7.5% to improve hardness.

Use of Stoving Alkyds Resins to improve hardness, flexibility, gloss , solid content and weathering properties.

**SOLVENTS:** The solvents chosen for paints and lacquers based on SYNOCRYL827 are Xylene ,Toluene , Esters Glycol Ethers. It is having limited solubility in alcohols.

**COMPATIBILITY:** SYNOCRYL827 is compatible with similar grades of Thermosetting acrylic resins and all types of etherified amino resins.

#### USES:

- Automotive refinishes
- Low bake Finishes
- High quality domestic Appliances

**SYNOCRYL 827** 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.