

TECHNICAL DATA SHEET

SYNOCRYL® 846S-60

Thermoset acrylic

PRODUCT APPLICATION DETAILS

SYNOCRYL® 846S-60 is hydroxyl functional thermosetting CAB compatible acrylic resin. SYNOCRYL® 846S-60 is a thermosetting hydroxylated acrylic copolymer for crosslinking with amino resins. Suitable for Basecoat for wet on wet systems especially automotive topcoats. Good compatibility with cellulose acetate-butyrates resins.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 125°C, 1gm, 1hr)	58 - 62 %	ISO 3251
Viscosity (100 gm resin + 50 gm BA, FCB-4) (at 30°C)	60 - 70 s	
Color	1 max Gardner	ISO 4630
Acid value	15 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Volatile	Xylene / Butanol	
Flash point	24 °C	ISO 3679
Density (at 20°C)	0.99 g/ml	ISO 2811
Hydroxyl content	2.3 %	

Acid value and/or Hydroxyl value quoted relative to solid resin

¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS

Coatings & Inks

- Industrial Coating
 - Automotive - Refinish
 - General Industry
 - Protective Coating
 - Rigid Packaging Metal (Can & Others)

PERFORMANCE BENEFITS

- Excellent CAB compatibility
- Good adhesion and hardness
- Excellent durability

SYNOCRYL® 846S-60

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCRYL® 846S-60 have excellent CAB compatibility and it should be used in conjunction with amino resins to give coatings which cure in 30 minutes at 120 - 130°C. Butylated melamine formaldehyde resin are preferred and should be employed at acrylic/amino resin solid ratio of between 60:40 and 80:20. Optimum properties of hardness and flexibility can be obtained at a 70:30 acrylic/amino resin solid ratio.

SOLUBILITY:

The solvents chosen for paints based on SYNOCRYL® 846S-60 should be free from water and not contain groups that react with isocyanates. Soluble in aromatic hydrocarbons, esters, ketones and alcohols. No solubility in aliphatic hydrocarbons.

COMPATIBILITY:

SYNOCRYL® 846S-60 is compatible with CAB; similar grades of thermosetting acrylic resins, amino resins and some acrylic polyol resin.

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOCRYL® 846S-60 should be stored indoors in the original, unopened and undamaged container, in a dry place at a temperature not exceeding 30°C. Exposure to direct sunlight should be avoided. In the above mentioned storage conditions the shelf life of the resin will be from the date of manufacturing.

Shelf Life (Months): 12

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