

## TECHNICAL DATA SHEET

# SYNOCRYL® 806S-70

*Thermoset acrylic*

### PRODUCT APPLICATION DETAILS

SYNOCRYL® 806S-70 is hydroxyl functional thermosetting flexible acrylic resin.  
SYNOCRYL® 806S-70 is a thermosetting hydroxylated acrylic copolymer for combination 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)	69 - 71 %	ISO 3251
Viscosity (at 25°C)	40 - 60 P	ISO 3219
Color	1 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Volatile	Xylene/ Butyl Acetate	
Flash point	24 °C	ISO 3679
Density (at 20°C)	0.99 g/ml	ISO 2811
Hydroxyl content	2.1 %	

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

<sup>1</sup>The 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 - OEM
  - Automotive - Refinish
  - Coil
  - General Industry

### PERFORMANCE BENEFITS

- Excellent CAB compatibility
- Excellent gloss and colour retention
- Good adhesion and hardness
- Excellent durability

# SYNOCRYL® 806S-70

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

SYNOCRYL® 806S-70 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® 806S-70 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® 806S-70 is compatible with CAB; similar grades of thermosetting acrylic resins, etherified amino resins and some acrylic polyol resin.

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNOCRYL® 806S-70 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

**Arkema Chemical India Private Ltd.**  
D-43, Trans Thane Creek MICD  
Industrial Area 400706, Mumbai – India  
T +91 22 67377122

**Headquarters: Arkema France**  
51, Esplanade du Général de Gaulle  
92800 Puteaux – France  
T +33 (0)1 49 00 80 80

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