

## TECHNICAL DATA SHEET

# SYNOCRYL® 816N-70

*Thermoset acrylic*

### PRODUCT APPLICATION DETAILS

SYNOCRYL® 816N-70 is hydroxyl functional thermosetting acrylic resin developed for use in wet on wet application of auto body topcoats and lacquers.

SYNOCRYL® 816N-70 is recommended for the development of the acrylic based OEM, General Industrial and vehicle refinish lacquers or paints having excellent overall performance.

Particular performance characteristics achieved with SYNOCRYL® 816N-70 include:

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 125°C, 1gm, 1hr)	68 - 72 %	ISO 3251
Viscosity (at 25°C)	30 - 70 P	ISO 3219
Color	1 max Gardner	ISO 4630
Acid value	6 - 10 max mg KOH/g	ISO 2114

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

	CHARACTERISTICS	METHODS
Volatile	Aromatic Solvent 100	
Flash point	43 °C	ISO 3679
Density (at 20°C)	1.03 g/ml	ISO 2811
Hydroxyl content	3.3 %	

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
  - General Industry
  - Rigid Packaging Metal (Can & Others)
- Automotive - Oem - Exterior

### PERFORMANCE BENEFITS

- Excellent gloss and colour retention
- Excellent durability
- Good solvent and chemical resistance
- Good adhesion and hardness.

# SYNOCRYL® 816N-70

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

SYNOCRYL® 816N-70 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. Use of 5 - 10% of acid catalyst solution on resin solids can be used to accelerate curing.

### WSOLUBILITY:

SYNOCRYL® 816N-70 is soluble in aromatic hydrocarbons, esters, ketones and glycol ethers. Limited solubility in alcohols.

### COMPATIBILITY:

SYNOCRYL® 816N-70 is compatible with similar grades of thermosetting acrylic resins and all types of etherified amino resins.

SYNOCRYL® 816N-70 should only be used in applications consistent with the above recommendations. Proposals to use the resin in other ways should be discussed with Arkema before any action is taken.

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## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNOCRYL® 816N-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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