

## TECHNICAL DATA SHEET

# SYNOCURE® 886 S 70

*Carboxyl acrylic NISO*

### PRODUCT APPLICATION DETAILS

SYNOCURE® 886 S 70 is an acid functional acrylic resin designed to crosslink at room temperature with epoxy resins to give high solids content isocyanate-free two-pack coating systems.

Coatings based on this resin are especially suitable for protection and maintenance in areas where rapid drying, hardness and abrasion resistance are required.

SYNOCURE® 886 S 70 has been designed to react with economic bisphenol A type epoxies and still maintain good exterior durability.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	68 - 72 %	ISO 3251
Viscosity (25°C)	3000 - 6000 mPa.s	ISO 3219
Color	5 max Gardner	ISO 4630
Acid value	44 - 52 mg KOH/g	ISO 2114

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

	CHARACTERISTICS	METHODS
Solvent	2:1 xylene : n-butanol	-
Flash point	24 °C	ISO 3679
Density	1.01 g/ml	ISO 2811

<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
  - General Industry
  - Protective And Marine Coating

### PERFORMANCE BENEFITS

- Coatings formulation with VOC at or below 420g/l at application viscosity
- Fast drying
- Good exterior durability

# SYNOCURE® 886 S 70

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

SYNOCURE® 886 S 70 is designed for use with low viscosity epoxy resins of epoxy equivalent weight 180-190 <sup>(1)</sup>  
Active hydrogen equivalent weight of SYNOCURE® 886 S 70 is 1145 based on solid resin. A stoichiometric mixing ratio of 1/1 to 1.25 / 1 epoxy / active hydrogen equivalents is recommended although minor deviations from this will have little effect on performance.

This isocyanate-free system is suitable for use with a wide range of both organic and inorganic pigments. As with other reactive two-component systems it is strongly recommended that all pigments are checked for stability with the system before commercialisation.

### SOLUBILITY

Aromatic hydrocarbons such as xylene together with minor proportions of esters and alcohols are the most suitable.

### OTHER ADDITIVES

Hindered amine light stabilisers (HALS) <sup>(2)</sup> are strongly recommended as additives for these acrylic/epoxy systems. SYNOCURE® 886 S 70 should only be used in applications consistent with the above recommendations. Proposals to use the resin in alternative systems should be discussed with Arkema before any action is taken.

Notes: <sup>(1)</sup> Araldite® GY250 (Hunstman) or Epikote™ Resin 828 (Momentive), <sup>(2)</sup> Tinuvin® 292 (BASF) at 2% (based on total resin solids)

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNOCURE® 886 S 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 shipping date.

**Headquarter: Arkema France**  
420, rue d'Estienne d'Orves  
92705 Colombes Cedex – France  
T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.

Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790