

## TECHNICAL DATA SHEET

# SYNOCURE® 886 S 70 MY

*Carboxyl acrylic NISO*

### PRODUCT APPLICATION DETAILS

SYNOCURE® 886 S 70 MY 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 MY 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, mPa.s)	3000 - 6000	ISO 3219
Color (Gardner)	5 max	ISO 4630
Acid value (mg KOH/g)	44 - 52	ISO 2114

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

	CHARACTERISTICS	METHODS
Solvent	Xylene and butanol (2:1)	-
Density (25°C, g/mL)	1	-

<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 & APPLICATIONS

#### Coatings & Inks

- Industrial Coating
  - General Industry
  - Marine
  - 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 MY

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

SYNOCURE® 886 S 70 MY 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 MY 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 MY 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 MY 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 12 months.

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