

# SYNOCURE® 886 S 70

GENERAL INDUSTRY

ARKEMA COATING RESINS

## 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.

## Performance Benefits

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

## Polymer Type

- Solventborne Acrylic

## Sales Specifications

Solid Content at 125°C, % (ISO 3251)	68 - 72
Viscosity at 25°C, mPa.s (ISO 3219)	3000 - 6000
Colour, Gardner scale (ISO 4630)	5 max
Acid value, mg KOH/g (ISO 2114)	44 - 52

## Other Characteristics<sup>1</sup>

Volatile	2:1 xylene : n-butanol
Flash point, °C (ISO 3679)	24
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.01

Note: 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

## Formulation Guidelines

### RECOMMENDATIONS FOR USE

SYNOCURE® 886 S 70 is designed for use with low viscosity epoxy resins of epoxy equivalent weight 180-190 (1)

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) (2) 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: (1) Araldite® GY250 (Huntsman) or Epikote™ Resin 828 (Momentive), (2) Tinuvin® 292 (Ciba) at 2% (based on total resin solids)

# SYNOCURE®

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## Product Safety

Please refer to the corresponding Safety Data Sheet.

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## Storage & 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 12 months from the shipping date

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The logo for ARKEMA, with the word in a bold, sans-serif font. The 'A', 'R', 'K', 'E', and 'M' are in dark blue, while the 'A' at the end is in green.