SYNOCURE®

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[1]

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

[1] The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

MARKETS

Coatings & Inks

- Architectural Coating
  - Exterior Wall
- Industrial Coating
  - General Industry
  - Marine
  - Metal Exterior - Powder
  - 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 (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 (Hunstman) or Epikote™ Resin 828 (Momentive), (2) 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.

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