

SYNOCURE 886 S 70

Non-Isocyanate Cured Acrylic

Product Information

SYNOCURE 886 S 70 is an acid functional acrylic resin designed to cross-link at ambient temperatures with epoxy resins to give high solids content isocyanate-free two-pack coating systems.

Coating based on this resin is 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.

- Coating with VOC at or below 420g/lit at application viscosity can be formulated.
- Fast drying
- Good exterior durability

Sales Specification

| | |
|---|---------------|
| Non-volatile content at 125°C, % (ISO 3251) | 68 – 72 |
| Viscosity at 25°C, mPa.s (ISO 3219) | 3,000 – 6,000 |
| Colour, Gardner scale (ISO 4630) | Max. 5 |
| Acid value, mg KOH/g (ISO 2114) | 44 - 52 |

Noted: Acid value quoted relative to solid resin

Other Properties

| | |
|---|------------------------|
| Volatile | 2:1 Xylene : n-butanol |
| Density at 20°C, g/cm ³ (ISO 2811) | 1.01 |

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 commercialization.

SOLUBILITY

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

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OTHER ADDITIVES

Hindered amine light stabilizers (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.

⁽¹⁾ *Araldite GY250 (Huntsman) or Epikote Resin 828 (Momentive).*

⁽²⁾ *Tinuvin 292 (Ciba) at 2% based on total resin solids.*

Precautions for Use

Please refer to corresponding Safety Data Sheet.

Storage Recommendations

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.

Shelf Life

Under the above mentioned storage conditions the shelf life of the resin will be 12 months.



The world is our inspiration

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