SYNOCURE®

TECHNICAL DATA SHEET

SYNOCURE® 9422 BA 70

Carboxyl acrylic NISO

PRODUCT APPLICATION DETAILS

SYNOCURE® 9422 BA 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® 9422 BA 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	Butyl acetate	-
Flash point	27 °C	ISO 3679
Density	1.02 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

- Industrial Coating
  - General Industry
  - Packaging Coating Metal (Can And Others)
  - Protective And Marine Coating

PERFORMANCE BENEFITS

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

SYNOCURE® 9422 BA 70

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCURE® 9422 BA 70 is designed for use with low viscosity epoxy resins of epoxy equivalent weight 180-190 [1]
Active hydrogen equivalent weight of SYNOCURE® 9422 BA 70 is 1145 based on solid resin. A stochiometric 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® 9422 BA 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® 9422 BA 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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