

## TECHNICAL DATA SHEET

# SYNOCURE® 9422 BA 70 MY

*Carboxyl acrylic NISO*

### PRODUCT APPLICATION DETAILS

SYNOCURE® 9422 BA 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® 9422 BA 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	Butyl acetate	-
Density (25°C, g/mL)	1.00	-

<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

#### Coatings & Inks

- Industrial Coating
  - General Industry
  - 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 MY

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

SYNOCURE® 9422 BA 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® 9422 BA 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® 9422 BA 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® 9422 BA 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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