

SYNOCURE® 9422 BA 70 MY (E20822)

Non-Isocyanate Cured Acrylic

ARKEMA COATING RESINS

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.

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

(provisional*)

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

* These specifications are subject to change in the light of manufacturing experience, up to the point of full commercialisation

Other Characteristics¹

Volatile Butyl acetate

Density / Specific Gravity at 25°C, g/ml (ISO 2811) 1.00

Note: Acid value and/or Hydroxyl value quoted relative to solid resin

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

RECOMMENDATIONS FOR USE

SYNOCURE® 9422 BA 70 MY 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 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.

Formulation Guidelines

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

SYNOCURE®

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & 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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The logo for ARKEMA, featuring the word "ARKEMA" in a bold, sans-serif font. The letters "A", "R", "K", "E", and "M" are in a dark blue color, while the letter "A" at the end is in a light green color.