

SYNOCURE® 9294 BA 70

GENERAL METAL / PROTECTIVE COATING

ARKEMA COATING RESINS

Product

Application details

SYNOCURE® 9294 BA 70 is a high solid hydroxy functional acrylic designed to crosslink at room temperature or forced air drying with aliphatic polyisocyanates. Suggested applications are protective, marine and maintenance coatings.

Performance Benefits

- Fast drying
- Low VOC
- High UV resistance
- Excellent hardness of film
- Excellent chemical resistance

Polymer Type

- Solventborne Acrylic

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	69 - 71
Viscosity at 25°C, mPa.s (ISO 3219)	2100 - 3500
Colour, Hazen scale (ISO 6271)	50 max
Acid value, mg KOH/g (ISO 2114)	6 - 13

Other Characteristics¹

Volatile	Butyl Acetate
Flash point, °C (ISO 3679)	27
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	0.99
Hydroxyl Content, %	4.2
Hydroxyl Equivalent weight	405

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

Formulation Guidelines

RECOMMENDATIONS FOR USE

SYNOCURE® 9294 BA 70 should be mixed with the selected polyisocyanate just prior to application. It is preferable to use stoichiometric ratios to obtain optimum performance. The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants. The relationship is:

$$\text{Hydroxyl equivalent weight} = \frac{17 \times 100}{\% \text{ OH}}$$

$$\text{Isocyanate equivalent weight} = \frac{42 \times 100}{\% \text{ NCO}}$$

Using Tolonate™ HDT-LV2 (1), the recommended ratios would be:

	on solid resin	as supplied
SYNOCURE® 9294 BA 70	405	578
Tolonate™ HDT-LV2 (1)	183	183

At normal temperatures, an addition of 0.005 - 0.02 % of catalyst (based on solid acrylic resin) is necessary to achieve a pot life around 1 to 3 hours. The catalyst used is dibutyl tin dilaurate.

Notes: (1) Vencorex Chemicals

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE® 9294 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 12 months from the shipping date

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