

SYNOCURE® 9293 BA 70 (FORMERLY E20293)

GENERAL INDUSTRY

ARKEMA COATING RESINS

Product Application details

SYNOCURE® 9293 BA 70 is a high solid hydroxy functional acrylic designed to crosslink at room temperature or forced air drying with aliphatic polyisocyanates.

SYNOCURE® 9293 BA 70 is particularly recommended for use in vehicle refinishing, ACE (Agricultural, Construction, Earth-moving equipment), protective coating and for all high performance industrial applications where high performance is required.

Performance Benefits

- Low VOC
- Fast drying
- 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)	1000 - 2000
Colour, Hazen scale (ISO 6271)	50 max
Acid value, mg KOH/g (ISO 2114)	10 max

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, %	2.9
Hydroxyl Equivalent weight	586

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® 9293 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® 9293 BA 70	586	837
Tolonate™ HDT LV2 (1)	183	183

At normal temperatures, the dust free time of varnishes based upon this combination is around 20 - 30 minutes, when we add 0.10-0.15 % of catalyst (based on solid acrylic resin). The pot life is around one hour. The catalyst used is dibutyl tin dilaurate.

Notes: (1) Vencorex Chemicals

Formulation Guidelines

SYNOCURE®
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Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE® 9293 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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See SDS for Health & Safety Considerations.

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For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.

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