

TECHNICAL DATA SHEET

SYNOCURE® 9294 BA 70

Acrylic polyol

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.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	69 - 71 %	ISO 3251
Viscosity (25°C)	2100 - 3500 mPa.s	ISO 3219
Color	50 max Hazen	ISO 6271
Acid value	6 - 13 mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Butyl Acetate	-
Flash point	27 °C	ISO 3679
Density	0.99 g/ml	ISO 2811
Hydroxyl content	4.2 %	-
Hydroxyl equivalent weight	405	-

¹The 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
 - Automotive - OEM
 - Automotive - Refinish
 - General Industry

PERFORMANCE BENEFITS

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

SYNOCURE® 9294 BA 70

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:

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Hydroxyl Equivalent Weight = $(17 \times 100) / \%OH$

Isocyanate Equivalent Weight = $(42 \times 100) / \%NCO$

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

- on solid resins: SYNOCURE® 9294 BA 70/Tolonate™ HDT-LV2 ⁽¹⁾ = 405/183

- as supplied: SYNOCURE® 9294 BA 70/Tolonate™ HDT-LV2 ⁽¹⁾ = 578/183

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 AND 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 from the shipping date.

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