

## TECHNICAL DATA SHEET

# SYNOCURE® 9293 BA 70

Acrylic polyol

### 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.

### SALES SPECIFICATIONS

|                       | CHARACTERISTICS   | METHODS  |
|-----------------------|-------------------|----------|
| Solid content (125°C) | 69 - 71 %         | ISO 3251 |
| Viscosity (25°C)      | 1000 - 2000 mPa.s | ISO 3219 |
| Color                 | 50 max Hazen      | ISO 6271 |
| Acid value            | 10 max mg KOH/g   | ISO 2114 |

### OTHER CHARACTERISTICS<sup>1</sup>

|                            | CHARACTERISTICS | METHODS  |
|----------------------------|-----------------|----------|
| Solvent                    | Butyl acetate   | -        |
| Flash point                | 27 °C           | ISO 3679 |
| Density                    | 0.99 g/ml       | ISO 2811 |
| Hydroxyl content           | 2.9 %           | -        |
| Hydroxyl equivalent weight | 586             | -        |

<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
  - Automotive - OEM
  - Automotive - Refinish
  - General Industry
  - Protective And Marine Coating

### PERFORMANCE BENEFITS

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

# SYNOCURE® 9293 BA 70

## FORMULATION GUIDELINES

### 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:

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

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

Using Tolonate™ HDT LV2 <sup>(1)</sup>, the recommended ratios would be:

- on solid resins: SYNOCURE® 9293 BA 70/Tolonate™ HDT LV2 <sup>(1)</sup> = 586/183

- as supplied: SYNOCURE® 9293 BA 70/Tolonate™ HDT LV2 <sup>(1)</sup> = 837/183

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: <sup>(1)</sup> VENCOREX® Chemicals

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND 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 from the shipping date.

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