

## TECHNICAL DATA SHEET

# SYNOCURE® 9203 S 52

Acrylic polyol

### PRODUCT APPLICATION DETAILS

SYNOCURE® 9203 S 52 is a hydroxy functional acrylic designed to crosslink at room temperature or under low-bake conditions (60°C-80°C) with aliphatic polyisocyanates. SYNOCURE® 9203 S 52 is particularly recommended for use in vehicle refinishing, A.C.E. and transport coatings.

### SALES SPECIFICATIONS

|                       | CHARACTERISTICS  | METHODS  |
|-----------------------|------------------|----------|
| Solid content (125°C) | 51 - 54 %        | ISO 3251 |
| Viscosity (25°C)      | 900 - 1400 mPa.s | ISO 3219 |
| Color                 | 100 max Hazen    | ISO 6271 |
| Acid value            | 4 - 10 mg KOH/g  | ISO 2114 |

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

|                            | CHARACTERISTICS                                                       | METHODS  |
|----------------------------|-----------------------------------------------------------------------|----------|
| Solvent                    | 2:1 aromatic hydrocarbon, boiling range 160°C - 180°C : butyl acetate | -        |
| Flash point                | 29 °C                                                                 | ISO 3679 |
| Density                    | 0.99 g/ml                                                             | ISO 2811 |
| Hydroxyl content           | 4.0 %                                                                 | -        |
| Hydroxyl equivalent weight | 425                                                                   | -        |

<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

- Fast dry and good early hardness
- Good application properties
- Excellent mechanical properties
- Good weathering performance

# SYNOCURE® 9203 S 52

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

SYNOCURE® 9203 S 52 should be mixed with the selected polyisocyanate just prior to application. The mixing ratio is not critical although 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™ HDB 75 MX <sup>(1)</sup>, the recommended ratios would be:

- on solid resins: SYNOCURE® 9203 S 52/Tolonate™ HDB 75 MX <sup>(1)</sup> = 425/191

- as supplied: SYNOCURE® 9203 S 52/Tolonate™ HDB 75 MX <sup>(1)</sup> = 817/255

### SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE® 9203 S 52 used should be free from water and not contain groups that react with isocyanates. Esters and ketones are true solvents and are recommended for use in combination with aromatic hydrocarbon diluents such as xylene.

Notes: <sup>(1)</sup> VENCOREX® Chemicals

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNOCURE® 9203 S 52 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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