

TECHNICAL DATA SHEET

SYNOCURE® 9207 S 60

Acrylic polyol

PRODUCT APPLICATION DETAILS

SYNOCURE® 9207 S 60 is a hydroxy functional acrylic designed to crosslink at room temperature or forced air drying with aliphatic polyisocyanates.

SYNOCURE® 9207 S 60 is particularly recommended for all high performance industrial applications where fast cure, high crosslinking density and chemical resistance are required.

SALES SPECIFICATIONS

| | CHARACTERISTICS | METHODS |
|-----------------------|-------------------|----------|
| Solid content (125°C) | 59 - 61 % | ISO 3251 |
| Viscosity (25°C) | 4500 - 7000 mPa.s | ISO 3219 |
| Color | 100 max Hazen | ISO 6271 |
| Acid value | 10 max mg KOH/g | ISO 2114 |

OTHER CHARACTERISTICS¹

| | CHARACTERISTICS | METHODS |
|----------------------------|------------------------------|----------|
| Solvent | Xylene : Butyl acetate (3:1) | - |
| Flash point | 26 °C | ISO 3679 |
| Density | 1.01 g/ml | ISO 2811 |
| Hydroxyl content | 4.5 % | - |
| Hydroxyl equivalent weight | 378 | - |

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
 - Protective And Marine Coating

PERFORMANCE BENEFITS

- Fast cure
- Yellowing resistance
- Excellent weather resistance
- Very good chemical resistance
- Petrol resistance

SYNOCURE® 9207 S 60

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCURE® 9207 S 60 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 ⁽¹⁾, the recommended ratios would be:

- on solid resins: SYNOCURE® 9207 S 60/Tolonate™ HDT-LV2 ⁽¹⁾ = 378/183

- as supplied: SYNOCURE® 9207 S 60/Tolonate™ HDT-LV2 ⁽¹⁾ = 630/183

At normal temperatures, an addition of 0.02 - 0.05 % 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® 9207 S 60 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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