

## TECHNICAL DATA SHEET

# SYNOCURE® 9237 S 70 MY

Acrylic polyol

### PRODUCT APPLICATION DETAILS

SYNOCURE® 9237 S 70 MY is a hydroxy functional acrylic resin designed to crosslink at room temperature with polyisocyanates.

SYNOCURE® 9237 S 70 MY is particularly well suited for use in high quality compliant industrial marine coatings, heavy duty and protective coatings such as structural steelwork.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C, %)	69 - 71	ISO 3251
Viscosity (S 34, 12rpm) (25°C, mPa.s)	2000 - 3000	ISO 3219
Color (Gardner)	2	ISO 4630
Acid value (mg KOH/g)	10 max	ISO 2114

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

	CHARACTERISTICS	METHODS
Solvent	Aromatic hydrocarbon, boiling range 155°C - 181°C / Xylene	-
Density (25°C, g/mL)	1.01	-
Hydroxyl content (%)	3.1	-
Hydroxyl equivalent weight	550	-

<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 - Refinish
  - Coil
  - General Industry
  - Marine
  - Protective And Marine Coating
  - Industrial Wood Finishes

### PERFORMANCE BENEFITS

- Excellent chemical and stain resistance
- Economy in use
- Good durability
- Excellent adhesion

# SYNOCURE® 9237 S 70 MY

## FORMULATION GUIDELINES

### RECOMMENDATIONS FOR USE

SYNOCURE® 9237 S 70 MY should be mixed just prior to application with the selected polyisocyanate. The mixing ratio is not critical although it is preferable to use stoichiometric ratios to obtain optimum performance.

SYNOCURE® 9237 S 70 MY reacted with Tolonate™ HDT-LV2 <sup>(1)</sup> in stoichiometric proportions has a usable pot life in excess half of a working day at normal room temperatures. The use of catalysts or higher temperatures will reduce this usable period.

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® 9237 S 70 MY/Tolonate™ HDT-LV2 <sup>(1)</sup> = 550/182

- as supplied: SYNOCURE® 9237 S 70 MY/Tolonate™ HDT-LV2 <sup>(1)</sup> = 786/182

### SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE® 9237 S 70 MY should be free of water and should not contain groups which react with isocyanates. Esters and ketones are true solvents for this type of system and are usually used with aromatic hydrocarbon diluents.

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

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

SYNOCURE® 9237 S 70 MY 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.

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