

# SYNOCURE 9237 S 70 MY

Hydroxyl Functional Acrylic, 3.1% OH

ARKEMA COATING RESINS

## 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.

## Performance Benefits

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

## Polymer Type

- Solventborne Acrylic

## Sales Specifications

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

## Other Characteristics<sup>1</sup>

Volatile	Aromatic hydrocarbon, boiling range 155°C – 181°C / Xylene
Density / Specific Gravity at 25°C, g/ml	1.01
Hydroxyl Content, %	3.1
Hydroxyl Equivalent weight	550

Note: Acid value and/or Hydroxyl value quoted relative to solid resin

<sup>1</sup> The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

## RECOMMENDATION 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 (1) in stoichiometric proportions has a usable pot life in excess of a full working day at normal room temperatures. The use of catalysts or higher temperatures will reduce this storage period.

The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants. The relationship is:

$$\text{Hydroxyl equivalent weight} = \frac{17 \times 100}{\% \text{ OH}}$$

$$\text{Isocyanate equivalent weight} = \frac{42 \times 100}{\% \text{ NCO}}$$

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

	on solid resin	as supplied
SYNOCURE 9237 S 70 MY	550	786
Tolonate™ HDT-LV2 (1)	182	182

## Formulation Guidelines

### 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: (1) Vencorex Chemicals*

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### **Product Safety**

Please refer to the corresponding Safety Data Sheet.

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### **Storage & 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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