

SYNOCURE® 9237 S 70

(FORMERLY E20237)

PROTECTIVE & MARINE COATINGS

ARKEMA COATING RESINS

Product

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

Application details

SYNOCURE® 9237 S 70 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, Hazen scale (ISO 6271)	150 max
Acid value, mg KOH/g (ISO 2114)	10 max

Other Characteristics¹

Volatile	Aromatic hydrocarbon, boiling range 155°C - 181°C / Xylene
Flash point, °C (ISO 3679)	37
Density / Specific Gravity at 20°C, g/ml	0.99
Hydroxyl Content, %	3.1
Hydroxyl Equivalent weight (ISO 4629)	550

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

¹ 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 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 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	550	786
Tolonate™ HDT-LV2 (1)	182	182

Formulation Guidelines

SYNOCURE®

SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE® 9237 S 70 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

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE® 9237 S 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 12 months from the shipping date

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