SYNOCURE®

TECHNICAL DATA SHEET

SYNOCURE® 9237 S 70

Acrylic polyol

PRODUCT APPLICATION DETAILS

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

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C)	69 - 71 %	ISO 3251
Viscosity (S 34, 12rpm) (25°C)	2000 - 3000 mPa.s	ISO 3219
Color	150 max Hazen	ISO 6271
Acid value	10 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Solvent	Aromatic hydrocarbon, boiling range 155°C - 181°C / Xylene	-
Flash point	37 °C	ISO 3679
Density	0.99 g/ml	-
Hydroxyl content	3.1 %	-
Hydroxyl equivalent weight	550	-

[1]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
  - General Industry
  - Protective And Marine Coating

PERFORMANCE BENEFITS

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

SYNOCURE® 9237 S 70

FORMULATION GUIDELINES

RECOMMENDATIONS 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:
Hydroxyl Equivalent Weight = (17*100) / %OH
Isocyanate Equivalent Weight = (42*100) / %NCO
Using Tolonate™ HDT-LV2 (1), the recommended ratios would be:
- on solid resins: SYNOCURE® 9237 S 70/Tolonate™ HDT-LV2 (1) = 550/182
- as supplied: SYNOCURE® 9237 S 70/Tolonate™ HDT-LV2 (1) = 786/182

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 AND 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 from the shipping date.

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