

TECHNICAL DATA SHEET

SYNOCURE® 9279 S 70

Acrylic polyol

PRODUCT APPLICATION DETAILS

SYNOCURE® 9279 S 70 is a hydroxy functional acrylic designed to crosslink at room temperature or under low-bake conditions with aliphatic polyisocyanates. It is particularly recommended for use in vehicle refinishing, A.C.E., Transport coatings and Heavy Duty Coatings.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C, %)	69 - 71	ISO 3251
Viscosity (25°C, mPa.s)	6500 - 8500	ISO 3219
Color (Hazen)	100 max	ISO 6271
Acid value (mg KOH/g)	10 max	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Butyl acetate and Xylene (3:1)	-
Density (25°C, g/mL)	1.03	-
Hydroxyl content (%)	4.2	-
Hydroxyl equivalent weight	400	-

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

MARKETS & APPLICATIONS

Coatings & Inks

- Industrial Coating
 - Automotive - Refinish
 - General Industry
 - Protective Coating
 - Protective And Marine Coating
 - Wood Furniture

PERFORMANCE BENEFITS

- Fast dry and good early hardness
- Good application properties
- Excellent mechanical properties
- Good weathering performance

SYNOCURE® 9279 S 70

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCURE® 9279 S 70 should be mixed with the selected polyisocyanate just prior to application. The mixing ratio is not critical although 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™ HDB 75 MX ⁽¹⁾, the recommended ratios would be:

- on solid resins: SYNOCURE® 9279 S 70/Tolonate™ HDB 75 MX ⁽¹⁾ = 400/191

- as supplied: SYNOCURE® 9279 S 70/Tolonate™ HDB 75 MX ⁽¹⁾ = 571/255

SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE® 9279 S 70 used should be free from water and not contain groups that react with isocyanates. Esters and ketones are true solvents and are recommended for use in combination with aromatic hydrocarbon diluents such as xylene.

Notes: ⁽¹⁾ VENCOREX® Chemicals

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOCURE® 9279 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.

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