

TECHNICAL DATA SHEET

SYNOCURE® 561 X 60

Acrylic polyol

PRODUCT APPLICATION DETAILS

SYNOCURE® 561 X 60 is a hydroxyl functional acrylic resin designed to crosslink at room temperature with polyisocyanates.

SYNOCURE® 561 X 60 has particularly good resistance properties to solvents, suitable for anti-corrosive protection and for long life decorative coatings, especially on structural steelwork.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (125°C, %)	59 - 61	ISO 3251
Viscosity (25°C, mPa.s)	2000 - 3000	ISO 3219
Color (Hazen)	100 max	ISO 6271
Acid value (mg KOH/g)	12 max	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Solvent	Xylene	-
Density (25°C, g/mL)	0.99	-
Hydroxyl content (%)	2.3	-
Hydroxyl equivalent weight	739	-

¹The 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
 - Wood Furniture

PERFORMANCE BENEFITS

- Good chemical resistance
- Fast drying properties
- Good adhesion
- Economy in use

SYNOCURE® 561 X 60

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCURE® 561 X 60 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.

Using Tolonate HDB 75⁽¹⁾ or Tolonate HDT⁽¹⁾, the recommended ratios would be:

- on solid resin: SYNOCURE® 561 X 60 / Tolonate HDB 75⁽¹⁾ or Tolonate HDT⁽¹⁾ = 739 / 191
- as supplied: SYNOCURE® 561 X 60 / Tolonate HDB 75⁽¹⁾ or Tolonate HDT⁽¹⁾ = 1232 / 255 or 191

To increase the initial rate of cure of SYNOCURE® 561 X 60 paints, at both ambient temperatures and under low bake conditions, the use of tin or zinc catalysts in the form of dibutyl tin dilaurate or zinc octoate is recommended. The levels used will depend on specific requirements, but typical metal contents calculated on total solid resin would be 0.001% tin and 0.0015% zinc. The use of catalysts or higher temperatures will reduce pot life.

SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE® 561 X 60 should be free of water and should not contain groups that react with isocyanates. Esters and ketones are true solvents for this type of system and are recommended for use in conjunction with aromatic hydrocarbon diluents.

Notes: ⁽¹⁾ Vencorex Chemicals

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOCURE® 561 X 60 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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