

SYNOCURE® 561 X 60

Hydroxyl Functional Acrylic, 2.3% OH

ARKEMA COATING RESINS

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.

Performance Benefits

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

Polymer Type

- Solventborne Acrylic

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	59 - 61
Viscosity at 25°C, mPa.s (ISO 3219)	2000 - 3000
Colour, Hazen scale (ISO 6271)	Max. 100
Acid value, mg KOH/g (ISO 2114)	Max. 12

Other Characteristics¹

Volatile	Xylene
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	approx. 0.99
Hydroxyl content, %	approx. 2.3
Hydroxyl Equivalent Weight (on solid resin)	approx. 739

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

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 75¹⁾ or Tolonate HDT, the recommended ratios would be:

	on solid resin	as supplied
SYNOCURE® 561 X 60	739	1232
Tolonate HDB 75 ¹⁾	191	255
Tolonate HDT	191	191

Formulation Guidelines

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.

Notes: ¹⁾ Vencorex Chemicals

SYNOCURE®

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.

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & 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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Arkema Coating Resins Malaysia Sdn Bhd

PLO 491, Jalan Keluli, Pasir Gudang Industrial Estate,

81700 Pasir Gudang, Johor, Malaysia.

arkema.com - arkemacoatingresins.com