SYNOCURE® 867 S 57 MY

Hydroxyl Functional Acrylic, 2.8% OH

ARKEMA COATING RESINS

Product Application details

 ${\sf SYNOCURE}^{\$}$ 867 S 57 MY is a hydroxy functional acrylic resin designed to crosslink at room temperature with polyisocyanates.

Performance Benefits

- Excellent chemical and stain resistance
- Good durability
- Excellent adhesion
- Long pot life

Polymer Type

Solventborne Acrylic

Sales Specifications

Solid Content at 125°C, % (ISO 3251)	55 - 59
Viscosity at 25°C, mPa.s (ISO 3219)	3000 - 5000
Colour, Hazen scale (ISO 6271)	70 max
Acid value, mg KOH/g (ISO 2114)	6 max

Other Characteristics¹

Volatile	3:1 xylene : methoxy propyl acetate	
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.01	
Hydroxyl Content, %	2.8	
Hydroxyl Equivalent weight	600	

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

RECOMMENDATIONS FOR USE

SYNOCURE® 867 S 57 MY 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.

The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants. The relationship is:

Hydroxyl equivalent weight = $\frac{17 \times 100}{\% \text{ OH}}$

Isocyanate equivalent weight = $\frac{42 \times 100}{\% \text{ NCO}}$

Using Desmodur[®] N 75 series (1) or Tolonate[™] HDB 75 MX (2), the recommended ratios would be:

Formulation Guidelines

	on solid resin	as supplied
SYNOCURE® 867 S 57 MY	600	1000
Desmodur® N 75 series (1) or Tolonate™ HDB 75 MX (2)	191	255

At normal temperatures, the surface drying time of paints based on this combination is typically 15 min, with hard dry in 1h.

SYNOCURE® 867 S 57 MY reacted with Desmodur® N 75 series (1) or Tolonate $^{\text{TM}}$ HDB 75 MX (2) in stoichiometric proportions has a usable pot life in excess of 40h at normal room temperature. The use of catalysts or higher temperatures will reduce this storage period.

To increase the initial rate of cure of SYNOCURE® 867 S 57 MY paints, at both ambient temperature and under low bake conditions, the use of tin or zinc catalysts in the form of



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

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.

SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE® 867 S 57 MY 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) Covestro, (2) Vencorex Chemicals

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Product Safety	Please refer to the corresponding Safety Data Sheet.
Storage & Handling	SYNOCURE® 867 S 57 MY 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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