SYNOCURE® 867 BA 60 MY

Hydroxyl Functional Acrylic, 2.8% OH — **ARKEMA COATING RESINS**

Product Application details

SYNOCURE® 867 BA 60 MY is a hydroxy functional acrylic designed to crosslink at room temperature with polyisocyanates.
SYNOCURE® 867 BA 60 MY is especially recommended for coatings where outdoor durability and resistant properties are of prime importance.

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)	58 - 62
Viscosity at 25°C, mPa.s (ISO 3219)	3500 - 6000
Colour, Hazen Scale (ISO 6271)	70 max
Acid value, mg KOH/g (ISO 2114)	8 max

Other Characteristics[1]

Volatile	Butyl acetate
Density / Specific Gravity at 25°C, g/ml (ISO 2811)	1.02
Hydroxyl Content, %	2.8
Hydroxyl Equivalent weight	600

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

Formulation Guidelines

RECOMMENDATIONS FOR USE

SYNOCURE® 867 BA 60 MY 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:

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

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

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

	on solid resin	as supplied
SYNOCURE® 867 BA 60 MY	600	1000
Desmodur® N 75 series (1) or Tolonate™ HDB 75 MX (2)	191	255

When mixed with polyisocyanates in stoichiometric proportions, SYNOCURE® 867 BA 60 MY has a pot life in excess of 8 hours at temperatures from 15°C to 30°C. This usable period will be reduced in high temperature conditions or when catalysts are used.

The initial curing rate can be increased by the use of tin or zinc catalysts such as dibutyl tin dilaurate or zinc octoate. The levels used will depend on the specific requirements, but typical metal contents calculated on total solid resin are 0.001% tin and 0.0015% zinc.
Coatings prepared from SYNOCURE® 867 BA 60 MY and stoichiometric quantities of polyisocyanates will have sand dry times of approximately 15min and hard dry times of 1h.

SOLUBILITY
Solvents used in systems containing SYNOCURE® 867 BA 60 MY should be low water content grades and not contain chemical groups (such as hydroxyl) which will react with isocyanates and thereby inhibit the film forming reaction. Esters and ketones are true solvents for this type of system, usually combined with aromatic hydrocarbon diluents.

Notes: (1) Covestro, (2) Vencorex Chemicals

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

SYNOCURE® 867 BA 60 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

Arkema Coating Resins Malaysia Sdn. Bhd.
- 05/2023

Arkema Coating Resins Malaysia Sdn Bhd
PLO 491, Jalan Keluli, Pasir Gudang Industrial Estate,
81700 Pasir Gudang, Johor, Malaysia.
arkema.com - **arkemacoatingresins.com**