SYNOCURE[®] 862 X 60 MY

Hydorxyl Functional Acrylic, 1.55% OH

Application details major factor.

Product

ARKEMA COATING RESINS

Exceptionally fast drying Performance High gloss **Benefits** Low isocyanate requirement Good hardening rate Polymer Solventborne Acrylic Туре Solid Content at 125°C, % (ISO 3251) 57 - 61 Sales Viscosity at 25°C, mPa.s (ISO 3219) 5500 - 8000 **Specifications** Colour, Hazen scale (ISO 6271) 100 max Acid value, mg KOH/g (ISO 2114) 5 - 8 Volatile **Xylene** Density / Specific Gravity at 25°C, g/ml (ISO 2811) 1.00 Hydroxyl Content, % 1.55 Other Hydroxyl Equivalent weight 1100 Characteristics¹ 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® 862 X 60 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: % 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® 862 X 60 MY 1100 1833 Desmodur® N 75 series (1) or 191 255 Tolonate[™] HDB 75 MX (2) At normal temperatures, the surface drying time of paints based on this combination is typically 10 min, with hard dry in 30 min.

SYNOCURE[®] 862 X 60 MY is a hydroxy functional acrylic resin designed to crosslink at room

temperature with polyisocyanates, and is particularly recommended where economy in use is a

SYNOCURE[®] 862 X 60 MY reacted with Desmodur[®] N 75 series (1) or Tolonate[™] HDB 75 MX (2) in stoichiometric proportions has a usable pot life at spraying viscosity in excess of a full working day at normal room temperature. The use of catalysts or higher temperatures will reduce this storage period.

SYNOCURE®

Paints prepared using stoichiometric blends of SYNOCURE[®] 862 X 60 MY and Desmodur[®] N 75 series (1) or Tolonate[™] HDB 75 MX (2) give coatings which are sand dry in 7 min - 10 min and hard dry in about 20 min at normal room temperature.

To increase the initial rate of cure of SYNOCURE[®] 862 X 60 MY paints, at both ambient temperature 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 or 0.0015% zinc.

SOLUBILITY

The solvents chosen for paints and lacquers based on SYNOCURE[®] 862 X 60 MY 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 such as xylene.

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

Product Safety	Please refer to the corresponding Safety Data Sheet.
Storage &	SYNOCURE [®] 862 X 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.
Handling	In the above mentioned storage conditions the shelf life of the resin will be 12 months from the shipping date

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