

TECHNICAL DATA SHEET

SYNOCURE® 888X-60

Acrylic polyol

PRODUCT APPLICATION DETAILS

SYNOCURE® 888X-60 is a hydroxyl functional acrylic resin developed for use in compliant two component systems when cured with polyisocyanate.

SYNOCURE® 888X-60 is recommended for the formulations, which are cross-link at room temperature or force dried with poly isocyanate and is particularly recommended where excellent all round performance is required.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (at 125°C, 1gm, 1hr)	58 - 62 %	ISO 3251
Viscosity (Brookfield Viscometer) (at 25°C)	35 - 50 P	ISO 3219
Color	1 max Gardner	ISO 4630
Acid value	10 max mg KOH/g	ISO 2114

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Volatile	Xylene	
Flash point	24 °C	ISO 3679
Density (at 20°C)	1 g/ml	ISO 2811
Hydroxyl content	2.1 %	
Hydroxyl equivalent weight	800	

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

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
 - Ace
 - Automotive - Refinish
 - General Industry
 - Protective Coating

PERFORMANCE BENEFITS

- Long pot life
- Excellent all-round performance
- Good DTM adhesion
- Good flexibility

SYNOCURE® 888X-60

FORMULATION GUIDELINES

RECOMMENDATIONS FOR USE

SYNOCURE® 888X-60 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:

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

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

Using Desmodur N-75⁽¹⁾, the recommended ratios would be:

-on solid resin: SYNOCURE® 888X-60/Desmodur N-75⁽¹⁾ = 800/191

-as supplied: SYNOCURE® 888X-60/Desmodur N-75⁽¹⁾ = 1335/255

To increase the initial rate of cure of SYNOCURE® 888X-60 based paints and varnishes, at both ambient temperatures and under low bake conditions, the use of tin catalysts in the form of dibutyl tin dilaurate or zinc octoate is recommended. The levels will depend on the specific requirements but typical metal contents calculated on total solid resin would be 0.001% tin.

The pot life of coatings based upon SYNOCURE® 888X-60 / Desmodur N 75⁽¹⁾ in the recommended proportions gives a full working days use.

SOLUBILITY

The solvents chosen for paints and laquers based on SYNOCURE® 888X-60 should be free from water and not contain groups that react with isocyanates.

OTHER ADDITIVES

To optimize the performance of SYNOCURE® 888X-60, when used in a clear varnish formulation, we recommend the use of Tinuvin® 900⁽²⁾ and Tinuvin® 292⁽²⁾ in a 2:1 ratio.

Notes: ⁽¹⁾ Bayer, ⁽²⁾ Ciba

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND HANDLING

SYNOCURE® 888X-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 from the date of manufacturing.

Shelf Life (Months): 12

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