SYNOCURE® 888X-60

ARKEMA COATING RESINS

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.

Performance Benefits

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

Polymer Type

Sales

Solvent borne Acrylic

Specifications

 Solid Content at 125°C, % (ISO 3251, 1gm, 1h, 125°C)
 58 – 62

 Viscosity in Poise at 25°C, Brookfield Viscometer
 35 - 50

Colour, Gardner scale (ISO 4630) 1 Max

Acid value, mg KOH/g (ISO 2114) 10 Max

Other Characteristics¹

Volatile	Xylene
Flash point, °C (ISO 3679)	24
Density / Specific Gravity at 20°C, g/ml (ISO 2811)	1.00
Hydroxyl Content, %	2.10
Hydroxyl Equivalent weight	800

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

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:

17 x 100

Hydroxyl equivalent weight =

% OH

Formulation Guidelines

Isocyanate equivalent weight =

42 x 100 % NCO

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

	on solid resin	as supplied
SYNOCURE® 888X-60	800	1335
Desmodur N- 75 (1)	191	255



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

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 & 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 conditions the shelf life of the resin will be 12 months from the date of manufacturing.

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